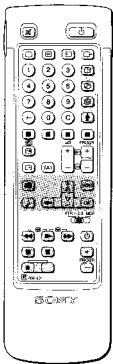
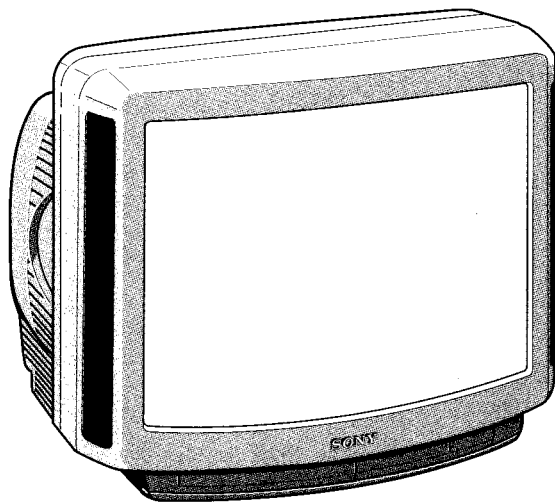


SERVICE MANUAL

AE-3 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-29X2A	RM-831	Italian	SCC-J26F-A	KV-29X2D	RM-831	AEP	SCC-J23F-A
KV-29X2B	RM-831	French	SCC-J27F-A	KV-29X2E	RM-831	Spanish	SCC-J28F-A



TRINITRON® COLOR TV
SONY®



ITEM	MODEL	Television System	Channel Coverage	Colour System
Italian	B/G/H	B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2	SECAM, PAL, PAL + NTSC 3.58 (video input only) NTSC4.43 (video input only)	
French	B/G/H, D/K, I, L	B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2 D/K VHF: R01-R12 UHF: R21-R69 I B21-69 L VHF: F2-F10 UHF: F21-F69 Cable TV: B-Q	SECAM, PAL NTSC 3.58 (video input only) NTSC4.43 (video input only)	
AEP	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV VHF: B-Q UHF: S21-S41	SECAM, PAL, PAL + NTSC 3.58 (video input only) NTSC4.43 (video input only)	
Spanish	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2 SECAM D/K VHF: R01-R12 UHF: R21-R60	SECAM, PAL, PAL + NTSC 3.58 (video input only) NTSC4.43 (video input only)	

MODEL	29X2A	29X2B	29X2D	29X2E
Power Consumption	133W	142W	140W	142W

SPECIFICATIONS

Picture Tube Super Trinitron
Approx. 72 cm (29 inches)
(Approx. 68 cm picture measured diagonally)
110° -deflection

Rear/Front Terminals

[REAR]

- 1 21-pin Euro connector (CENELEC standard)
 - Inputs for audio / video signals
 - Inputs for RGB
 - Outputs of TV audio and video signals
- 2/ ➤ 2, 21-pin Euro connector
 - Inputs for audio and video signals
 - Inputs for S video
 - Outputs for TV audio and video signals (selectable)
- Audio outputs (variable) - phono jacks

[FRONT]

- 3 , Video input - phono jack
- 3 , Audio inputs - phono jacks
- 3 , S video input - 4 pin DIN
- Headphonejack - stereo minijack

Sound output 2x30W (music power)
Dimensions 676x557x528 mm approx.
Weight Approx. 48.0 kg
Supplied accessories
Remote Commander RM831 (1)
Battery R6 (1)
Other features Digital comb filter (High resolution)
FASTEXT
100Hz Digital Plus

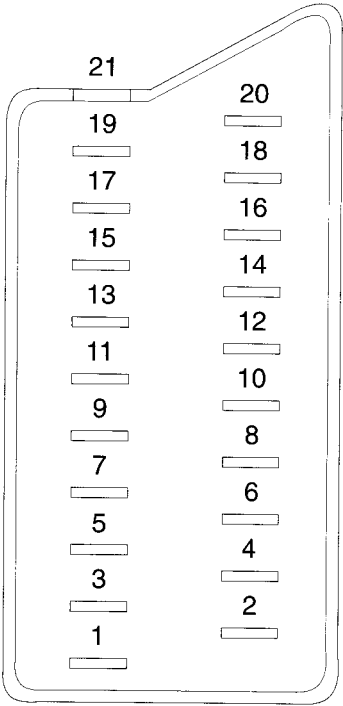
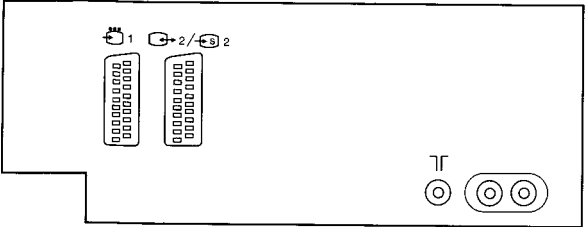
[RM-831]

Remote control system	Infrared control
Power requirements	1.5V dc 1 battery IEC designation R6 (size AA)
Dimensions	Approx. 65x225x21 mm (w/h/d)
Weight	Approx. 157g (Not including battery)

Design and specifications are subject to change without notice.

Model name Item	KV-29X2A	KV-29X2B	KV-29X2D	KV-29X2E
PIP	OFF	OFF	OFF	OFF
MPIP	OFF	OFF	OFF	OFF
Rotation Coil	ON	ON	ON	ON
VM Set	ON	ON	ON	ON
Scart 1	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON
Scart 3	OFF	OFF	OFF	OFF
Front AV	ON	ON	ON	ON
AKB in 16:9 mode	OFF	OFF	OFF	OFF
TXT	ON	ON	ON	ON
FLOF	ON	ON	ON	ON
TOP	ON	ON	ON	ON
Norm B/G/H	ON	ON	ON	ON
Norm I	OFF	ON	OFF	OFF
Norm D/K	OFF	ON	ON	ON
Norm L	OFF	ON	OFF	OFF
Language Preset	Italian	French	German	Spanish

21 pin connector (↻1, ↔2/↻2)



Pin No.	1	2	4	Signal	Signal Level
1	○	○	○	Audio output B (Right)	Standard level : 0.5V rms Output impedance : Less than 1k ohms*
2	○	○	○	Audio input B (Right)	Standard level : 0.5V rms Output impedance : More than 10k ohms*
3	○	○	○	Audio output A (Left)	Standard level : 0.5V rms Output impedance : Less than 1k ohm*
4	○	○	○	Ground (Audio)	
5	○	○	○	Ground (Blue)	
6	○	○	○	Audio input A (Left)	Standard level : 0.5V rms Output impedance : Less than 10k ohm*
7	○	●	●	Blue input	0.7 ± 3dB, 75 ohms, positive
8	○	○	○	Function select (AV control)	High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More10k ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (Green)	
10	○	○	○	Open	
11	○	●	●	Green	
12	○	○	○	Open	
13	○	○	○	Ground (Red)	
14	○	○	○	Ground (Blanking)	
15	○	—	—	Red input	0.7 ± 3dB, 75 ohms, positive
	—	○	○	(S signal) croma input	0.7 ± 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Y's signal)	High state (1 - 3V) - Low state (0 - 0.4V) Input impedance : 75 ohms
17	○	○	○	Ground (Video output)	
18	○	○	○	Ground (Video input)	
19	○	○	○	Video output	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
20	○	—	—	Video input	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
	—	○	○	Video input Y (S signal)	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
21	○	○	○	Common ground (plug, sheild)	

○ Connected ● Not Connected (Open) * at 20Hz - 20kHz

Pin No.	Signal	Signal Level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm, positive Sync. 0.3V -3 + 10dB
4	C (S signal) input	0.3V ± 3dB 75ohm, positive Sync.

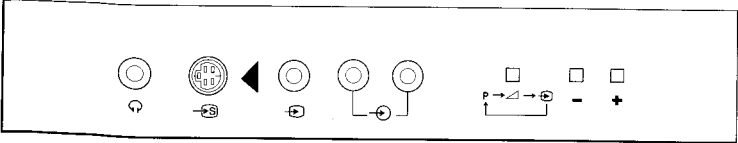


TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>	<u>Section</u>	<u>Title</u>	<u>Page</u>
1. GENERAL			5. DIAGRAMS		
	Overview	6	5-1.	Block Diagrams	31
	Getting Started	7	5-2.	Circuit Boards Location	42
	Additional Presetting Functions	9	5-3.	Schematic Diagrams and Printed Wiring Boards	42
	Operating Instructions	11		* A Board	47
	Adjusting and Setting the TV Using the Menu	12		* J Board	57
	Teletext	13		* H1, H2, F1 Board	60
	Connecting and operating Optional Equipment	14		* B3 Board	64
	For Your Information	16		* D Board	75
2. DISASSEMBLY				* G Board	77
2-1.	Rear Cover Removal	17		* VM Board	81
2-2.	Chassis Assy and H Bracket Removal	17		* C Board	83
2-3.	Service Position	17		* IF Block [IFH-389FX] (KV-29X2B only)	86
2-4.	G and J Board Removal	17		* IF Block [IFH-389WE]	
2-5.	Wire Dressing	18		(KV-29X2A, 29X2D, 29X2E only)	89
2-6.	Picture Tube Removal	18	5-4.	Semiconductors	91
3. SET-UP ADJUSTMENTS			6. EXPLODED VIEWS		
3-1.	Beam Landing	19	6-1.	Chassis	94
3-2.	Convergence	20	6-2.	Picture Tube	95
3-3.	Focus	22	7. ELECTRICAL PARTS LIST		96
3-4.	Screen (G2), White Balance				
	(Adjustment in the service mode				
	with remote commander	22			
4. CIRCUIT ADJUSTMENTS					
4-1.	Electrical Adjustments	23			
4-2.	Volume Electrical Adjustments	26			
4-3.	Test Mode 2 :	27			
4-4.	Error Monitor and Detection	29			
4-5.	LED Error Blinking	30			


CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.


ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

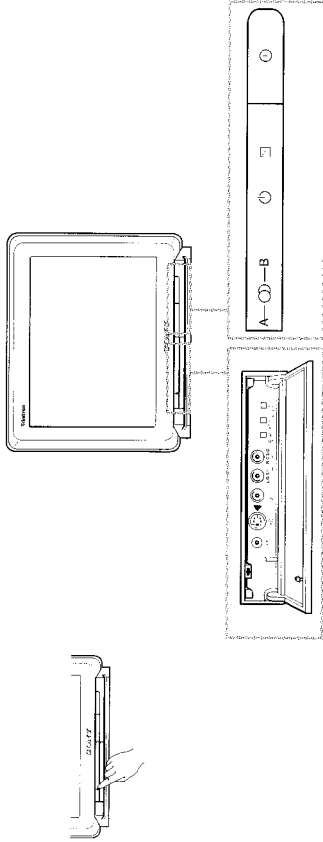
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES VUES EXPLODÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

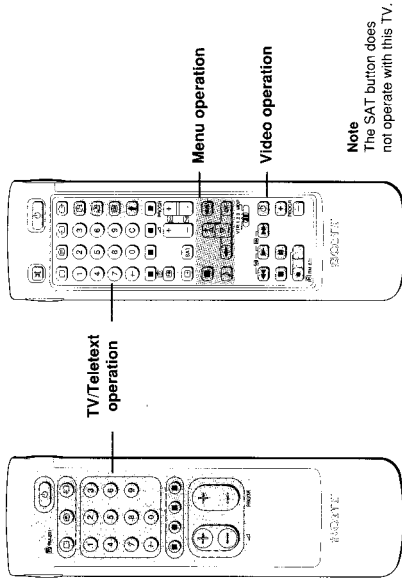
Overview

This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

TV set - front



Remote Commander RM-831

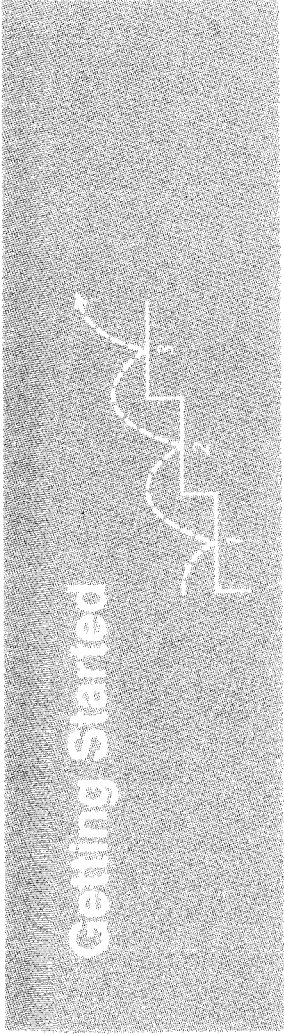


Symbol	Name	Refer to page
⏻	Main power switch	33, 40
⏻	Standby indicator	40
A-B	Stereo A/B mode indicators	42
🎧	Headphones jack	47
📶 3, 4, 5, 6, 7, 8, 9 and 0	Input jacks (S video/video/audio)	47
P → ↗ → ↘	Function selector (Programme/volume/input)	40
↔	Adjustment buttons for function selector	40

TV/Teletext operation		
Symbol	Name	Refer to Page
🔇	Muting on/off button	41
⏻	Standby button	40
⏻	TV power on/TV mode selector button	40
📺	Teletext button	41
📺	Input mode selector	41
📺	Output mode selector	48
1, 2, 3, 4, 5, 6, 7, 8, 9 and 0	Number buttons	40
↔	Double digit entering button	40
C	Direct channel entering button	39
↔	Volume control button	40
PROGR +/-	Programme selectors	40
📺	Teletext page access buttons	44
📺	Picture adjustment button	42
📺	Sound adjustment button	42
📺	On-screen display button	41
📺	Teletext hold button	44
📺	Time display button	41
📺	Fastext buttons	44

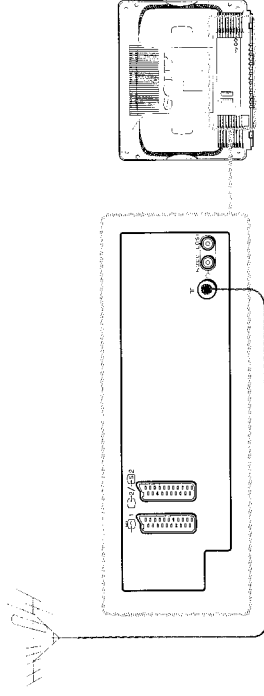
Menu operation		
Symbol	Name	Refer to Page
MENU	Menu on / off button	33
Δ+/-	Select buttons	33
OK	OK (confirming) button	33
←	Back button	33

Video operation		
Symbol	Name	Refer to Page
VTR1/2/3	Video equipment selector	49
⏻	Video equipment operation buttons	49
PROGR +/-		



Step 1 – Connection

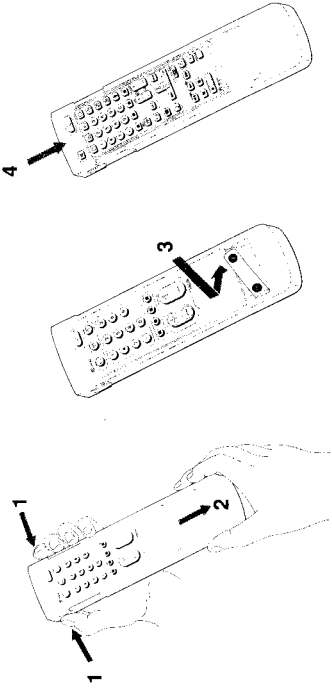
Connect the aerial



Fit an IEC aerial connector attached to 75-ohm coaxial cable (not supplied) to the T₁ socket at the rear of the TV. Make sure to use an aerial cable corresponding to the relevant regulations.

Step 2 – Preparation

Insert the batteries into the Remote Commander

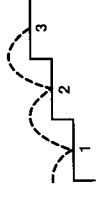


Remove the cover.

Check the correct polarities.

Refit the outside cover making sure that the Full-Function side is visible to use the menu in Step 3.

Step 3 Tuning in to TV Stations



Once you have set up the TV, you can choose the language of the menu. Then you should preset the channels (up to 100 channels) by choosing either the automatic or manual method. The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels and want to preset channels one by one. The manual method is also convenient for allocating programme numbers to various video input sources.

Before you begin

- Check that the Full-Function side of the Remote Commander is visible.
- Locate Menu operation buttons on the Remote Commander. They are shaded in the illustration at the left.

1 Choose a language

- 1 Depress on the TV.
The TV will switch on. If the standby indicator on the TV is lit, press or a number button on the Remote Commander.
- 2 Press the MENU button.
The LANGUAGE menu appears. (See Fig. 1)
- 3 Select the language you want with or and press OK.

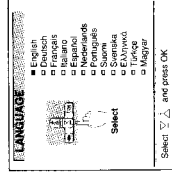


Fig. 1

2 Display the Menu

Press the MENU button twice.
The main menu appears. (See Fig. 2)
Using or select the symbol and press OK.
Now, choose one of the methods described overlaid:
»Preset Channels Automatically«
or
»Preset Channels Manually«.



Fig. 2

To go back to main menu:
Keep pressing .

To go back to the normal TV picture:
Press MENU. Normal TV picture will be restored after one minute if menu functions are not selected.

Note on the Demo function:
If you choose Demo in the Installation menu, you can see a sequential demonstration of the menu functions. Press MENU to stop the function.

3 Preset channels automatically


- 1 Select the symbol  for »Preset« with $\Delta+$ or $\nabla-$ and press OK. The PRESET menu appears. (See Fig. 3.)
- 2 Select »Auto Programme« with $\Delta+$ or $\nabla-$ and press OK. The AUTO PROGRAMME menu appears. (See Fig. 4.)
- 3 Press OK.
- 4 Select the programme (number button) from which you want to start presetting. Select the first element of the double digit number with $\Delta+$ or $\nabla-$ or the number buttons (e.g. For »04«, select »04« here) and press OK. The second element of »PROG« will be highlighted.
- 5 Select the second element of the double digit number with $\Delta+$ or $\nabla-$ or the number buttons (e.g. For »04«, select »4« here) and press OK. (See Fig. 5).
- 6 Select »C« or »S« with $\Delta+$ or $\nabla-$ and press OK. The automatic channel presetting starts. When presetting is finished, the preset menu reappears. All available channels are now stored on successive number buttons. Press MENU to restore normal TV picture.



Fig. 3

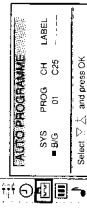


Fig. 4

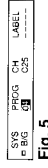



Fig. 5

3 Preset channels manually

- 1 Select the symbol  for »Preset« with $\Delta+$ or $\nabla-$ and press OK. The PRESET menu appears. (See Fig. 6.)
- 2 Select »Manual Programme Preset« with $\Delta+$ or $\nabla-$ and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 7.)

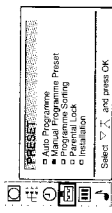


Fig. 6

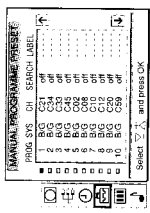


Fig. 7

With this method, you can preset all receivable channels at once.

To stop automatic channel presetting: Press $\Delta+$ or $\nabla-$ in the Remote Commander.

Notes:
• After presetting the channels automatically, you can check which channels are stored on which programme positions. For details, see »Displaying the Programme Table« on page 41.

• You can sort the programme positions to have them appear on screen in the order you like. For details, see »Sorting Programme Positions« on page 36.

Programme names are automatically taken from Teletext if available. If not, please refer to page 38 »Captioning a Station name« for more information.

Use this method if there are only a few channels in your area to preset or if you want to preset channels one by one. You may also allocate programme numbers to various video input sources.

If you have made a mistake:
Press $\Delta+$ to go back to the previous position.
To go back to main menu
Keep pressing $\Delta+$.
To go back to the normal TV picture.
Press MENU.

- 3 Using $\Delta+$ or $\nabla-$, select the programme position (number button) to which you want to preset a channel, and press OK.
 - 4 Select, if necessary the TV broadcast system or a video input source (EXT) with $\Delta+$ or $\nabla-$.
 - 5 Then press OK. The CH position will be highlighted. (See Fig. 8.)
 - 6 Using $\Delta+$ or $\nabla-$, select C (to preset a regular channel), S (cable channel) or F (to tune in by frequency) and press OK. The first element of the »CH« number will be highlighted. If you have selected EXT in step 5, select the video input source with $\Delta+$ or $\nabla-$. (See Fig. 9.)
- There are two ways to preset channels. If you know the channel number, go to step »7-Manual«,
- or
- if you don't know the channel number, go to step »7-Search«.



Fig. 8



Fig. 9

- 7 **Manual**
 - a Select the first element of the »CH« number with $\Delta+$ or $\nabla-$ or the number buttons and press OK. The second element of the »CH« number will be highlighted.
 - b Select the second element of the number with $\Delta+$ or $\nabla-$ or the number buttons. The selected number appears. (See Fig. 10.)
 - c Press OK. The »SEARCH« position is highlighted and the selected channel is now stored. (See Fig. 11.)
 - d Press OK until the cursor appears by the next programme position.
 - e Repeat steps 3 to 7 to preset other channels.



Fig. 10

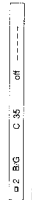


Fig. 11

- 7 **Search**
 - a Press OK repeatedly until the colour of the SEARCH position changes.
 - b Start searching for the channel with $\Delta+$ (up) or $\nabla-$ (down). The CH position changes colour. (See Fig. 12.) The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig. 13.)
 - c Press OK if you want to store this channel. If not, press $\Delta+$ or $\nabla-$ to continue channel searching.
 - d Press OK until the cursor appears by the next programme position.
 - e Repeat steps 3 to 7 to preset other channels.

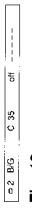


Fig. 12



Fig. 13

Additional Presetting Functions


This section shows you additional presetting functions such as sorting or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

Before you begin

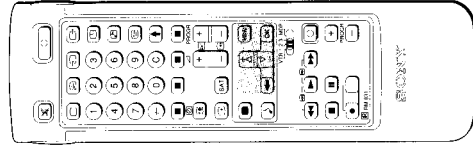
- Check that the Full Function side of the Remote Commander is visible
- Locate the Menu operation buttons.

Sorting Programme Positions

With this function, you can sort the programme positions to a preferable order.

- 1 Press MENU to display the main menu.
- 2 Select the symbol  for »Preset« with Δ + or ∇ - and press OK. The PRESET menu appears.
- 3 Select »Programme Sorting« with Δ + or ∇ - and press OK. The PROGRAMME SORTING menu appears. (See Fig. 14.)
- 4 Using Δ + or ∇ - select the programme position which you want to move to another and press OK. The colour of the selected position changes. (See Fig. 15.)
- 5 Using Δ + or ∇ - select the programme position to which you want to move the channel of the programme position selected in step 4 and press OK. Now the programme positions have been sorted. (See Fig. 16.)
- 6 Repeat steps 4 and 5 to sort other programme positions.

PROGRAMME SORTING



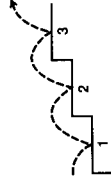
INSTALLATION

For higher programme positions: The display scrolls automatically.

If you have made a mistake, to go back to the previous position.

To go back to main menu:

Keep pressing \leftarrow . To go back to the normal TV picture: Press MENU.




INSTALLATION

Using »Further Programme Preset«

Using the menu »Further Programme Preset« you can

- a) individually adjust and store the volume level of each channel (Volume offset).
- b) in case of a strong sound signal (distorted sound), attenuate the sound signal for each programme position.
- c) use the manual fine tuning to obtain a better picture reception, if the picture is distorted. Normally the AFT (automatic fine tuning) is operating.

- 1 Press MENU to display the main menu.
- 2 Select the symbol  for »Preset« with Δ + or ∇ - and press OK. The PRESET menu appears.
- 3 Select »Installation« with Δ + or ∇ - and press OK. The INSTALLATION menu appears.
- 4 Select »Further Programme Preset« with Δ + or ∇ - and press OK. The FURTHER PROGRAMME PRESET menu appears (See Fig. 18).

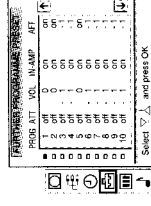


Fig. 18

- 5 Using Δ + or ∇ - select the desired programme position and press OK once to select a) VOL (Volume offset), twice to select b) »IN-AMP« (Input Amplifier) or three times to select c) AFT (Automatic Fine Tuning). The selected item changes colour. To adjust or change:

a) Volume offset (VOL)

Using Δ + or ∇ - you can adjust the volume level for the selected programme position within a range from -7 to +7. Press OK to store the volume level. Repeat step 5 to set the volume level for other programme positions.

b) IN-AMP (input amplifier)

Using Δ + or ∇ - select »Off« for the selected programme position. Press OK to confirm the selection. Repeat step 5 to switch off the input amplifier for other programme positions.

c) AFT

Using Δ + or ∇ - you can fine-tune the channel within a range from -15 to +15. Press OK to store the fine-tuned level. Repeat step 5 to fine-tune the other channels.

- 6 Press MENU to return to the normal TV mode.

To reactivate AFT (Automatic Fine Tuning) Repeat from the beginning of step 5. Select »ON« in step 5.

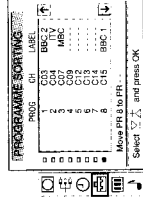


Fig. 14



Fig. 15

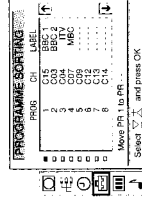



Fig. 16



Fig. 17

How to adjust the Picture Rotation

If due to the earth magnetism the picture »slants«, you can use the function »Picture Rotation« to readjust the picture.

- 1 Press MENU to display the main menu.
- 2 Select the symbol  for »Preset« with Δ + or ∇ - and press OK. The PRESET menu appears.
- 3 Select »Installation« with Δ + or ∇ - and press OK. The INSTALLATION menu appears.
- 4 Select »Picture Rotation« with Δ + or ∇ - and press OK. The PICTURE ROTATION menu appears. (See Fig. 17.)
- 5 Press OK. Adjust the picture rotation with Δ + or ∇ - until you have an upright picture. As you press the cursor buttons, the range changes from - 4 to + 4.
- 6 Press OK to store the adjustment.

MANUAL PROGRAMME PRESET

Skipping Programme Positions

You can skip unused programme positions when selecting programmes with the PROGR +/- buttons. However, the skipped programmes may still be called up when you use the number buttons.

- 1 Press MENU to display the main menu.
- 2 Select the symbol for »Preset« with Δ+ or ∇- and press OK. The PRESET menu appears.
- 3 Select »Manual Programme Preset« with Δ+ or ∇- and press OK.
- 4 The MANUAL PROGRAMME PRESET menu appears. (See Fig. 19.) Using Δ+ or ∇-, select the programme position which you want to skip and press OK.
- 5 The »SYS« position changes colour.
- 6 Press Δ+ or ∇- until »-« appears in the SYSTEM position. (See Fig. 20.)
- 7 Press OK. (See Fig. 21.) When you select programmes using the PROGR +/- buttons, the programme position will be skipped.
- 8 Repeat steps 4 to 6 to skip other programme positions.

MANUAL PROGRAMME PRESET

Captioning a Station Name

Programme names are usually automatically taken from Teletext if available. You can also »name« a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel or video source you are watching.

- 1 Press MENU to display the main menu.
- 2 Select the symbol for »Preset« with Δ+ or ∇- and press OK. The PRESET menu appears.
- 3 Select »Manual Programme Preset« with Δ+ or ∇- and press OK.
- 4 The MANUAL PROGRAMME PRESET menu appears. (See Fig. 22.) Using Δ+ or ∇-, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.
- 5 Select a letter or number with Δ+ or ∇- and press OK. The next element will be highlighted. Select other characters in the same way. If you want to leave an element blank, select - and press OK. (See Fig. 23.)
- 6 After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 24.)
- 7 Repeat steps 5 and 6 to caption names for other channels.

If you have made a mistake:
Press to go back to the previous position.
To go back to main menu:
Keep pressing .

To go back to the normal TV picture:
Press MENU.

PARENTAL LOCK

Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- 1 Press MENU to display the main menu.
- 2 Select the symbol for »Preset« with Δ+ or ∇- and press OK. The PRESET menu appears.
- 3 Select »Parental Lock« with Δ+ or ∇- and press OK. The PARENTAL LOCK menu appears. (See Fig. 25.)
- 4 Using Δ+ or ∇-, select the programme position you want to block and press OK.
- 5 The symbol appears in front of the programme number indicating that this programme is now blocked. (See Fig. 26.) Repeat step 4 to block other programme positions.

Cancelling blocking

- 1 On the PARENTAL LOCK menu, select the programme position you want to unblock with Δ+ or ∇-.
- 2 Press OK. The symbol disappears indicating that the blocking has been cancelled.

Tuning in a Channel Temporarily

You can tune in a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

- 1 Press C on the Remote Commander. For cable channels, press C twice. The indication »C« (»S« for cable channels) appears on the screen.
- 2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4). The channel appears. However, the channel will not be stored.

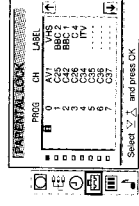


Fig. 25

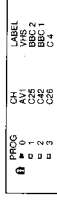


Fig. 26



Fig. 19



Fig. 20



Fig. 21

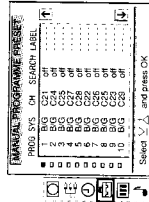


Fig. 22



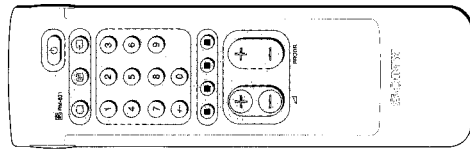
Fig. 23



Fig. 24

Operating Instructions

Watching the TV



If no picture appears when you depress \odot on the TV and if the standby indicator on the TV is lit, the TV is in standby mode. Press \odot or one of the number buttons to switch it on.

This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.

Switching the TV on and off

Switching on

Depress \odot on the TV.

Switching off temporarily

Press \odot on the Remote Commander.

The TV enters standby mode and the standby indicator on the front of the TV lights up.

To switch on again

Press \odot , PROG \pm/\mp , or one of the number buttons on the Remote Commander.

Switching off completely

Depress \odot on the TV.

Selecting TV Programmes

Press PROG \pm/\mp or the number buttons.

To select a double-digit number

Press \pm/\mp , then the number.

For example, if you want to choose 23, press \pm/\mp , 2 and 3.

Adjusting the Volume

Press \triangle/∇ .

Operating the TV Using the Buttons on the TV

With the buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

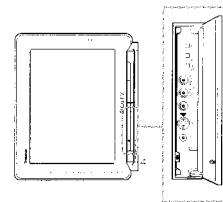
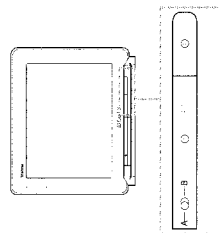
Press P \rightarrow \triangle/∇ \rightarrow \odot button repeatedly until the programme

number, \triangle (for volume), or \odot (for video input picture)

appears. Then adjust with the \pm/\mp buttons.

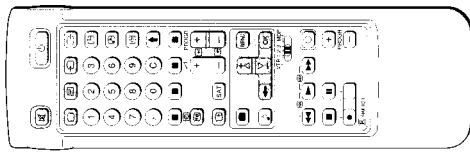
Press \pm/\mp buttons to switch on the TV from the standby mode.

Press \pm/\mp simultaneously to reset picture and sound controls to the factory preset level (RESET function).



For details of the teletext operation, refer to page 45.

For details of the video input picture, refer to page 48.



Watching Teletext or Video Input

Watching teletext

- Press \odot to view the teletext.
- Press three number buttons to select a page.
- Press one of the coloured buttons for fastext operation.
- Press \odot (PAGE \rightarrow) or \odot (PAGE \leftarrow) for the next or preceding page.
- To go back to the normal TV picture, press \odot .

Watching a video input picture

Press \odot repeatedly until the desired video input appears. To go back to the normal TV picture, press \odot .

More Convenient Functions

Use the Full-Function side of the Remote Commander.

Displaying the on screen indications

- Press \odot once to display all the indications. They will disappear after some seconds.
- Press \odot twice to have the programme number and label stay on screen. Press twice again to make indications disappear.

Muting the sound.

Press MUTE .

To resume normal sound, press MUTE again.

Displaying the time

Press \odot . This function is available only when teletext is broadcast. To make the time display disappear, press \odot again.

Displaying the Programme Table

Press OK. A Programme Table will be displayed on the right side of the TV screen (See Fig. 27).

Selecting TV programmes

Press PROG \pm/\mp or select the desired programme position using \triangle or ∇ and press OK.

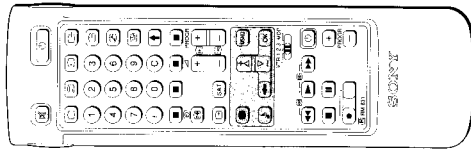
To make the Programme Table disappear, press MENU.

PGC	1
SAT	2
CHS	3
CHS	4
CHS	5
CHS	6
CHS	7
CHS	8
CHS	9
CHS	10
CHS	11
CHS	12
CHS	13
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CHS	90
CHS	91
CHS	92
CHS	93
CHS	94
CHS	95
CHS	96
CHS	97
CHS	98
CHS	99
CHS	100

Fig. 27

Adjusting and Setting the TV Using the Menu

PICTURE CONTROL SOUND CONTROL



If you have made a mistake:
Press **↔** to go back to the previous position.
To go back to the main menu:
Keep pressing **↔**.
To go back to the normal TV picture:
Press MENU.

Note on LINE OUT:
The audio level and the dual sound mode output from the **OUT** jack on the rear correspond to the HEADPHONES VOLUME and DUAL SOUND settings.

When watching a video input source with stereo sound:
You can select DUAL SOUND to change the sound.

Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste. You can also select dual sound (bilingual) programmes when available and adjust the sound for listening with the headphones ().

- 1 Press **⏏** (for picture) or **🔊** (for sound) on the Remote Commander, or
Press MENU and select on the screen the symbol **🖼️** for Picture Control or **🔊** for Sound Control, then press OK. The PICTURE CONTROL or SOUND CONTROL menu appears. (See Fig. 28 or Fig. 29)
- 2 Using **Δ** or **∇**, select the item you want to adjust and press OK. The selected item changes colour. (See Fig. 30)
- 3 Adjust the setting with **Δ** or **∇** and press OK. The cursor appears beside the next item (at the left margin). (See Fig. 31)
- 4 For the effect of each control, see the table below.
Repeat steps 2 and 3 to adjust other items.

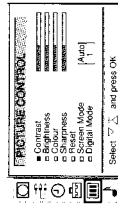


Fig. 28



Fig. 29



Fig. 30



Fig. 31

Effect of each control

PICTURE CONTROL	Effect
Contrast	Less ——— More
Brightness	Darker ——— Brighter
Colour	Less ——— More
Hue (only for NTSC)	Greenish ——— Reddish
Sharpness	Softer ——— Sharper
Reset	Resets picture to the factory preset levels.
Screen Mode	Auto (automatic selection of 16:9 broadcasts decoded in 4:3) → 4:3 Normal → 16:9 Wide screen effect
Digital Mode	I: Normal II: LFR (Line Flicker Reduction) off

SOUND CONTROL	Effect
Treble	Less ——— More
Bass	Less ——— More
Balance	More left ——— More right
Reset	Resets sound to the factory preset levels.
Loudness	off : Normal on : When listening to low volume sound.
Space	off : Normal on : Obtain acoustic sound effect.
Dual Sound	A : left channel B : right channel stereo mono
Headphones:	The selected mode of the A-CD-B indicator on the TV lights up.
🔊 Volume	Less ——— More
🔊 Dual Sound	A : left channel B : right channel STEREO MONO

Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

- 1 Using **Δ** or **∇**, select the symbol **⌚** for »Timer« and press OK. The TIMER menu appears (see Fig. 32).
- 2 Press OK. The time period option changes colour.
- 3 Select the time period with **Δ** or **∇**. The time period (in minutes) changes as follows:
off → 10 → 20 → 30 → 40 → 50 → 60 → 70 → 80 → 90
- 4 After selecting the time period, press OK. The cursor moves back to the left margin and the timer starts counting. One minute before the TV switches into standby mode, a message is displayed on the screen.

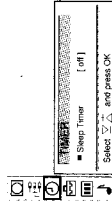


Fig. 32

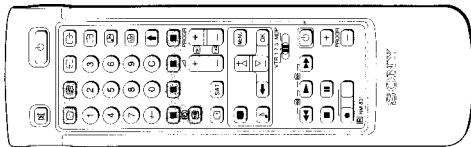
Operating Screen Mode using the Menu

- 1 Press MENU to display the main menu.
- 2 Select »Screen Mode« with **Δ** or **∇** and press OK. The SCREEN MODE menu appears (See Fig. 33).
- 3 Press OK.
- 4 Using **Δ** or **∇**, select the desired format (4:3 normal ratio or 16:9 for wide screen effect) and press OK.



Fig. 33

Teletext



Notes:
• Teletext errors may occur if the broadcasting signals are weak.

TV stations broadcast an information service called Teletext via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

Direct Access Functions

Switching Teletext on and off

- 1 Select the TV channel which carries the teletext broadcast you want to watch.
- 2 Press **[Teletext]** to switch on teletext.
A teletext page will be displayed (usually the index page). If there is no teletext broadcast, "No text available" is displayed on the information line at the top of the screen.

To switch teletext off
Press **[Off]**.

Selecting a teletext page

With direct page selection

Use the number buttons to input the three digits of the chosen page number.
If you have made a mistake, type in any three digits. Then re-enter the correct page number.

With page-catching

- 1 Select a teletext page with a page overview (e.g. index page).
- 2 Press OK. Using **[Δ+]** or **[▽-]**, select the desired page. "Page Catching" will be displayed on the information line. Press OK. The requested page will appear in a few seconds.

Press **[Teletext]** to resume normal teletext reception.

Accessing the next or preceding page

Press **[PAGE +]** or **[PAGE -]**.
The next or preceding page appears.

Superimposing the teletext display on the TV programme

- Press **[Teletext]** once in teletext mode or twice in TV mode.
- Press **[Teletext]** again to resume normal teletext reception.
- **Preventing a teletext page from being updated**
Press **[HOLD]**. The HOLD symbol "H" is displayed on the information line.
- Press **[Teletext]** to resume normal teletext reception.

Using Fastext

With Fastext you can access pages with one key stroke. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.

Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after some seconds.

Note:
Fastext operation is only possible, if the TV station broadcasts Fastext signals.

Using the Teletext Menu

This TV is provided with a menu-guided teletext system. When teletext is switched on, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way.

- 1 Press MENU. The menu will be superimposed on the teletext display. (See Fig. 34)
- 2 Using **[Δ+]** or **[▽-]**, select the teletext function you want and press OK. (See Fig. 35)

USER PAGES/PRESET USER PAGES

See page 50 for information about presetting and operating the user pages.

INDEX

The index will give you an overview of the contents of the teletext and the page numbers.

TOP/BOTTOM/FULL

For convenient reading of a teletext page, you can enlarge the teletext display with the ability to scroll up and down the screen. After having selected the function, an information line "Top/Bottom/Full" will be displayed. (See Fig. 36).

Press **[Δ+]** for "Top" to enlarge the upper half. For "Bottom" keep pressing **[▽-]** to enlarge the lower half. Press OK for "Full" to resume the normal size.
Press **[Teletext]** to resume normal teletext reception.

TEXT CLEAR

After having selected the function, you can watch a TV programme while waiting for a requested teletext page to be captured (The symbol changes colour) (See Fig. 37).
Press **[Teletext]** to view the requested page.

SUBTITLES

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be displayed.

REVEAL

Sometimes pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After having selected the function, an information line "REVEAL ON/OFF" will be displayed. (See Fig. 38).

Using **[Δ+]** or **[▽-]**, select ON to reveal the information or OFF to conceal it again.
Press **[Teletext]** to resume normal teletext reception.

TIME PAGE

Your teletext service will inform you, if a time coded page is available. You may have a page (e.g. an alarm page) displayed at a certain time.

- 1 Press OK. Using **[Δ+]** or **[▽-]** select ON and press OK.
- 2 To select the desired page, enter the three digits of the page number (e.g. 301) using the number buttons.
- 3 To select the time, enter four digits for the desired time (e.g. 1800) using the number buttons. Press MENU. The selected time is displayed at the top in the left-hand corner. At the requested time, the page will be displayed.
Press **[Teletext]** to resume normal teletext mode.

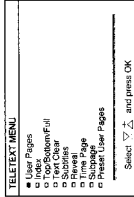


Fig. 34

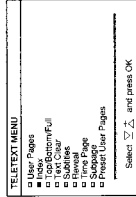


Fig. 35

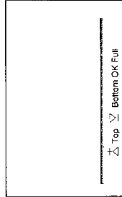


Fig. 36

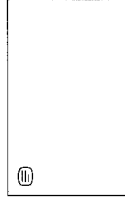


Fig. 37

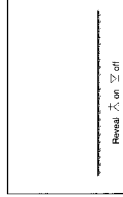


Fig. 38

Connecting and Operating Optional Equipment

SUBPAGE

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed. To select the desired subpage, enter four digits using PROGRL or the number buttons. (e.g. enter 0002 for the second page of a sequence).

User Page Bank System

You can store up to 30 pages in the "Teletext page bank system". In this way you have quick access to the pages you watch frequently.

Storing pages

There are 5 "banks" (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (P1 to P6).

Press **Ⓜ** (if Teletext is not on already) and MENU to show the TELETXT MENU display.

- 1 Select PRESET USER PAGES with Δ + or ∇ - and press OK.
- 2 Select the desired bank with Δ + or ∇ - and press OK. The cursor will go to the first position (P1) of the preferred pages.
- 3 Input the three digits of your first preferred page with the number buttons and press OK. The cursor will go to the second position.
- 4 Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press OK without inserting any number. After having finished the presetting press OK repeatedly until the cursor appears besides the next bank at the left margin.
- 5 Select Allocate Bank with Δ + or ∇ - and press OK.
- 6 Select the programme position for which you have preset pages with Δ + or ∇ - and press OK. (See Fig. 39).
- 7 Select the desired bank with Δ + or ∇ - (Banks A to E are available) and press OK.
- 8 Repeat steps 3 to 8 for the other 4 banks available.

Displaying User Pages

- 1 Select MENU.
- 2 Select User Pages with Δ + or ∇ - and press OK. A table of the stored preferred pages will be displayed. (See Fig. 40)
- 3 Select the desired page with Δ + or ∇ - and press OK. The page will be displayed after some seconds.

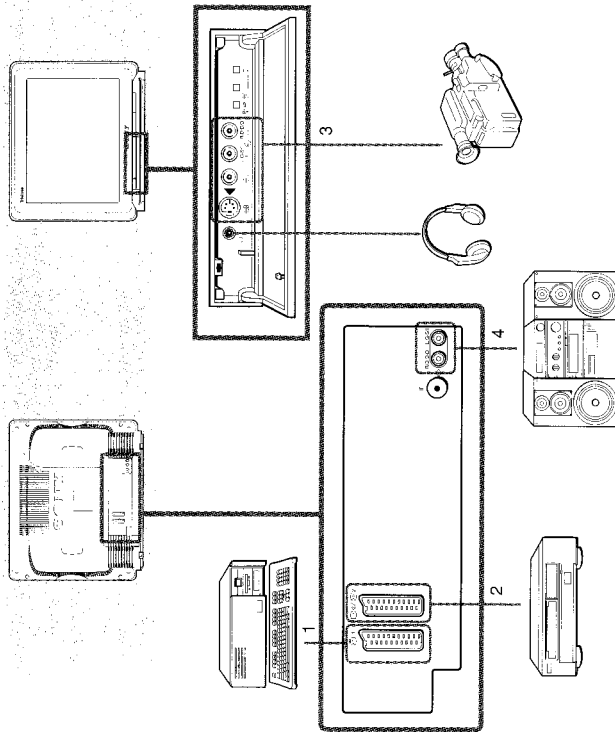
or

You can use the coloured buttons on the Remote Commander to have quick access to the first four User pages. Page 1 corresponds to the red button, P 2 to the green one, P 3 to the yellow one and P 4 to the blue button.

To select the desired page press the respective coloured button while you are in TV mode. Now the Page number of this teletext page will appear in white at the top in the left-hand corner of the TV screen. When the page number changes colour, the page is available. Press the coloured button again to display the page.

Connecting Optional Equipment

You can connect optional audio-video equipment to this TV such as VCRs, video disc players, and stereo systems.



To connect a VCR using the TV terminal
Connect the aerial output of the VCR to the aerial terminal "T" of the TV.

We recommend that you tune in the signal to programme number "0-". For details see "Preset Channels Manually" on page 34.

If the picture or the sound is distorted
Move the VCR away from the TV.

S video input (V/C input)

Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering when they are combined, and therefore improves picture quality (especially luminance).

When connecting a monaural VCR:
Connect only the white jack to both the TV and VCR.

Acceptable input signal

- 1 Normal audio/video and RGB signal
- 2 Normal audio/video and S video signal
- 3 Normal audio/video and S video signal
- 4 No inputs

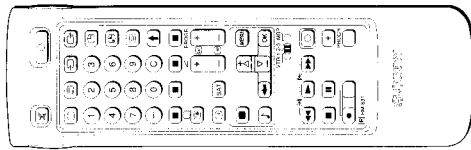
Available output signal

- 1 Video/audio from TV tuner
- 2 Video/audio from selected source
- 3 No outputs
- 4 Audio signal (variable)

If two broadcasting stations use the same Teletext:
You can preset one bank to 2 different programme positions.

To cancel the request:
Select "Subpage" and press OK.

Selecting input with PROGR +/- or number buttons:
You can preset video input sources to the TV screen and select them with PROGR +/- or number buttons. For details, see «Preset channels manually» on page 34.

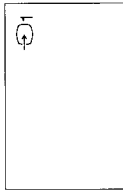


Selecting input and output

This section explains how to view the video input picture (of the video source connected to your TV), and how to select the output signal using direct access buttons or the menu system.

Selecting input

Press repeatedly to select the input source. The symbol of the selected input source will appear.
To go back to the normal TV picture
Press .



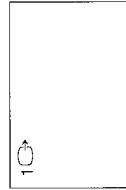
Input modes

Symbol	Input signal
1	Audio/video input through the 1 connector
2	RGB input through the 1 connector
2	Audio/video input through the 2/-3 connector
3	S video input through the 2/-3 connector
3	Audio/video input through 3 and 3 connectors at the front
3	S video input through the 3 connectors (4-pin connector) at the front

You can also select the input mode using the and and buttons on the TV.
In this case, select first and then press the buttons to select the input.

Selecting the output

The 2 connector outputs the source input from the other connectors.
You can also select the input mode using the and buttons on the TV. In this case, select first and then press the buttons to select the input.



Symbol 2/-3 connector outputs

Symbol	2/-3 connector outputs
1	The audio/video signal from the 1 connector
2	The audio/video signal from the 2/-3 connector
2	The audio/video signal from the 2/-3 connectors
3	The audio/video signal from the 3, 3 connectors
3	The audio/video signal from the 3, 3 connectors
TV	The audio/video signal from the TV aerial terminal

Using AV Preset

Using this function you can preset the desired input source (e.g. 1, RGB signal) to the respective AV input (AV 1). In this way a connected VTR will automatically switch to the RGB signal.

- 1 Select the symbol for «Preset» with or and press OK.
- 2 Select first «Installation», then «AV Preset» with or and press OK.
The AV PRESET menu appears (See Fig. 41).
- 3 Select the desired AV input with or and press OK.



Fig. 41

- 4 Select the desired source with or and press OK.
For the respective AV inputs you have the following possibilities:
AV 1 RGB or AV
AV 2 YC2 or AV
AV 3 YC3 or AV
- 5 If you want to name the AV input select «Label» using or and press OK. Select a letter or a number with or and press OK. The next element will be highlighted. Select other characters in the same way. If you want to leave an element blank, select and press OK.
After having selected all the characters, press OK repeatedly until the cursor appears by the next AV input at the left margin.
Repeat steps 3 to 5 for the other AV inputs.

Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are selected for the TV screen and PIP screen, and which output source is selected. You can also select them on the menu display.

- 1 Select the symbol for «Video Connection» with or and press OK. The VIDEO CONNECTION menu appears.
(See Fig. 42)
You can see which source is selected for the TV and PIP input, and for the output. If you want to select the input and output on this menu, go on to the next step.
- 2 Select TV Screen (input source for the TV screen), PIP (input source for the PIP screen), or output (output source) with or and press OK. One of the source items changes colour.
- 3 Select the desired source with or .
- 4 Press OK.
The selected source is confirmed, and the cursor appears.
- 5 Repeat steps 2 to 4 to select the source for other inputs or outputs.

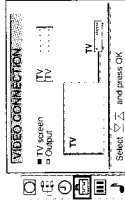


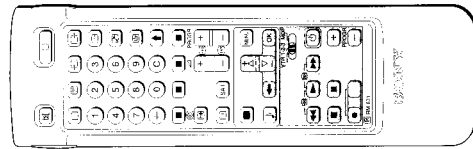
Fig. 42

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control other Sony remote-controlled video equipment. The buttons for video operation have been factory-set to control most of Sony video equipment, such as: Beta, 8mm or VHS VCRs or video disc players.

Tuning the Remote Commander to the equipment you want to control:

- 1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:
VTR 1: Beta VCR
VTR 2: 8mm VCR
VTR 3: VHS VCR
MDP: Video disc player
Use the buttons indicated in the illustration to operate the additional equipment.
If your video equipment is furnished with a COMMAND MODE selector: set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.
If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.




















When recording
When you use the (record) button, make sure to press this button and the one to the right of it simultaneously.

For Your Information

Troubleshooting

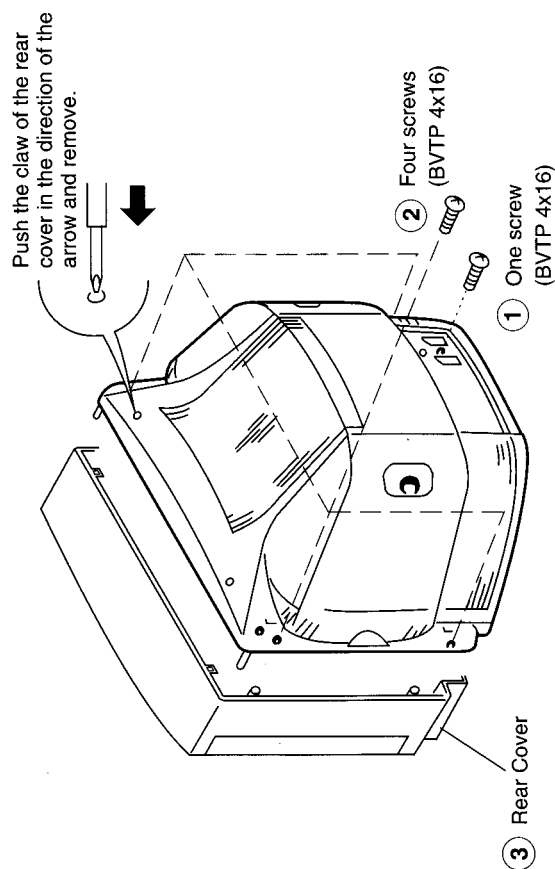
Here are some simple solutions to problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark), no sound	<ul style="list-style-type: none">• Plug the TV in.• Press  on the TV. (If  indicator is on, press  or a programme number on the Remote Commander.)• Check the aerial connection.• Check if the selected video source is on.• Turn the TV off for 3 or 4 seconds and then turn it on again using .• Press  to enter the PICTURE CONTROL menu and adjust »Brightness«, »Contrast« and »Colour«.• Press  repeatedly to select .
Poor or no picture (screen is dark), but good sound	<ul style="list-style-type: none">• Press  to enter the PICTURE CONTROL menu and adjust »Brightness«, »Contrast« and »Colour«.• Press  repeatedly to select .
Poor picture quality when watching an RGB video source	<ul style="list-style-type: none">• Press  to enter the PICTURE CONTROL menu and adjust »Brightness«, »Contrast« and »Colour«.• Press  repeatedly to select .
Good picture but poor or no sound	<ul style="list-style-type: none">• Press  to enter the PICTURE CONTROL menu and adjust »Brightness«, »Contrast« and »Colour«.• Press  to enter the PICTURE CONTROL menu and adjust »Brightness«, »Contrast« and »Colour«.• Press  to enter the PICTURE CONTROL menu and adjust »Brightness«, »Contrast« and »Colour«.
No colour for colour programmes	<ul style="list-style-type: none">• Press  to enter the PICTURE CONTROL menu, select RESET, then press OK.• Replace batteries.
Remote Commander does not function.	

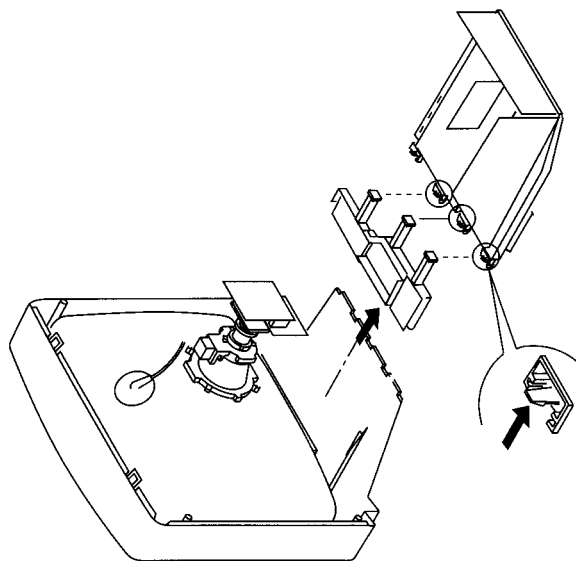
If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

SECTION 2 DISASSEMBLY

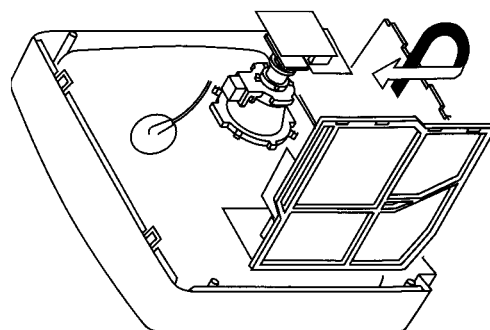
2-1. REAR COVER REMOVAL



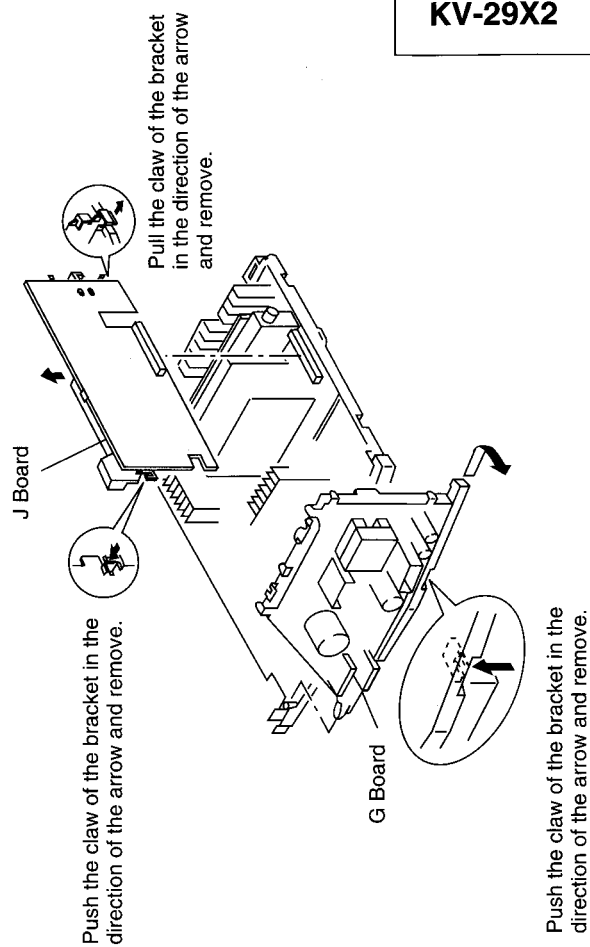
2-2. CHASSIS ASSY AND H BRACKET REMOVAL



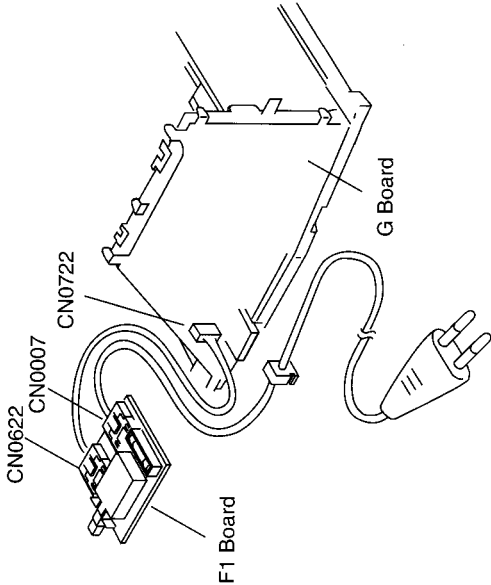
2-3. SERVICE POSITION



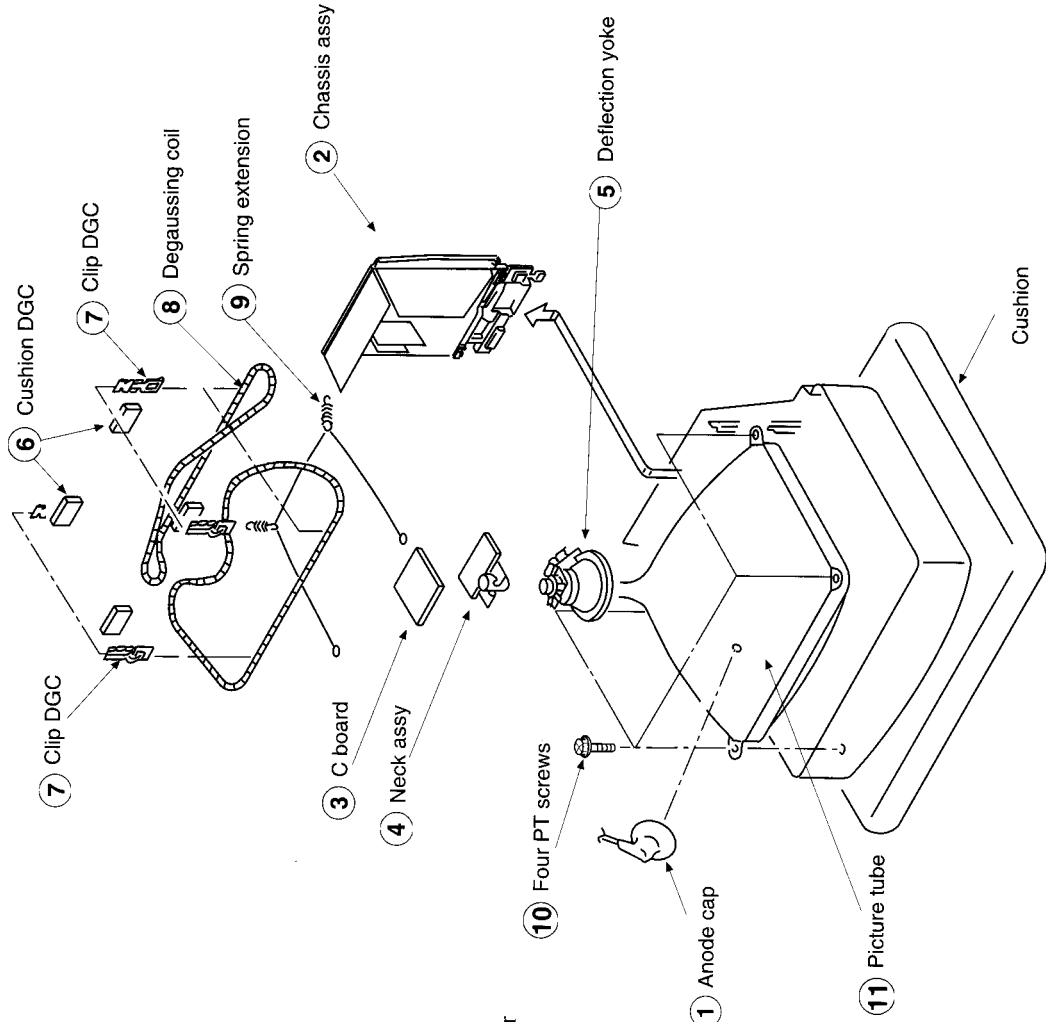
2-4. G AND J BOARD REMOVAL



2-5. WIRE DRESSING



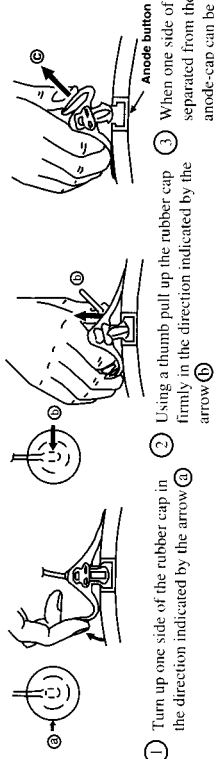
2-6. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

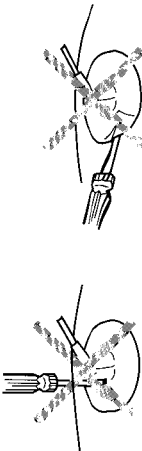
Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

• REMOVING PROCEDURES.



• HOW TO HANDLE AN ANODE-CAP

- 1 Don't damage the surface of anode-cap with sharp shaped material !
 - 2 Don't press the rubber hardly not to hurt inside of anode-caps !
 - 3 A metal fitting called as shatter-hook terminal is built into the rubber. Don't turn the foot of rubber over hardly !
- The shatter-hook terminal will stick out or damage the rubber.



SECTION 3

SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustment with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches as follows.

Contrast normal

Brightness normal

- Carry out the following adjustments in this order:

3-1. Beam landing

3-2. Convergence

3-3. Focus

3-4. White balance

Note: Testing equipment required.

1. Colour bar/pattern generator

2. Degausser

3. Vector scope

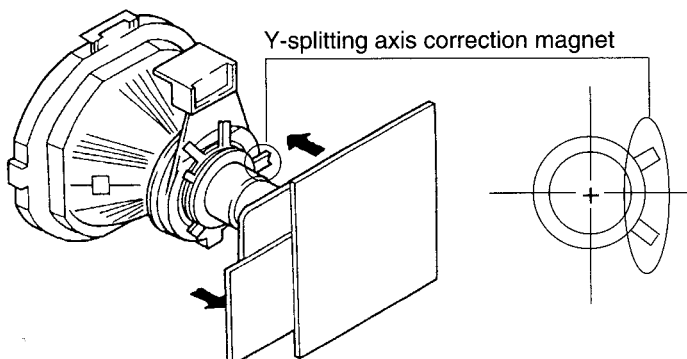
3-1. BEAM LANDING

Preparation:

1. In order to reduce the influence of geomagnetism on the set's picture tube face it in an easterly or westerly direction.
2. Switch on the set's power and degauss with the degausser.

(1) Adjustment of Correction Magnet for Y-Splitting Axis

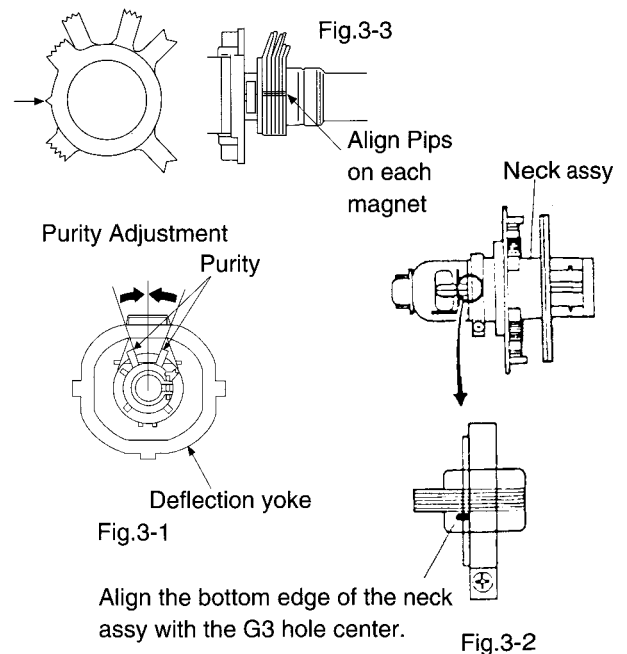
1. Input a crosshatch signal from the pattern generator.
2. Picture control is minimum and brightness control is still normal.
3. Position the neck assy as shown in Fig. 3-2.
4. Move the deflection yoke forward to touch the CRT and it stands up rightly.
5. Adjust the upper pin and the lower pin symmetrically by opening or closing the Y-splitting axis correction magnets on the neck assy.
6. Return the deflection yoke to its original position.



(2) Landing

Note: Before carrying out the following adjustments adjust the magnets as indicated below (See Fig.3-3).

1. Input an all-white signal from the pattern generator. Maximize the picture setting and adjust the brightness setting.
2. Rough-adjust the focus and horizontal convergence.
3. Loosen the deflection yoke screws, align the purity adjustment knob to the central position. (See Fig. 3-1)
4. Switch from the all-white pattern to an all-green pattern.
5. Move the deflection yoke backwards and adjust with the purity magnet so that the green is at the center and it aligns symmetrically. (See Fig. 3-4)
6. Move the deflection yoke forward and adjust so that entire screen becomes green.
7. Switch the raster signal to red, then to blue and verify the landing condition.
8. When the position of the deflection yoke has been determined, fasten the deflection yoke with the screw.
9. If the beam does not land correctly in all the corners, use magnets to correct it. (See Fig. 3-5)



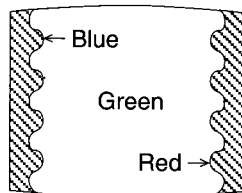


Fig.3-4

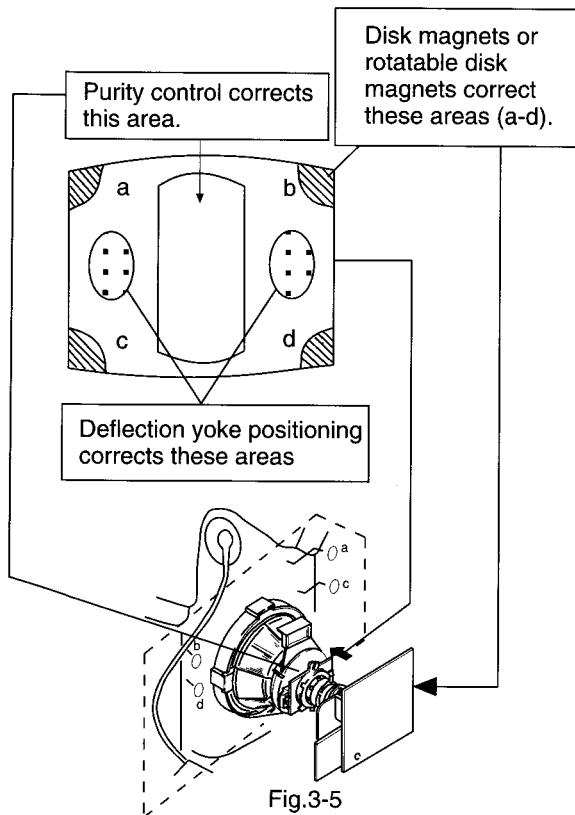
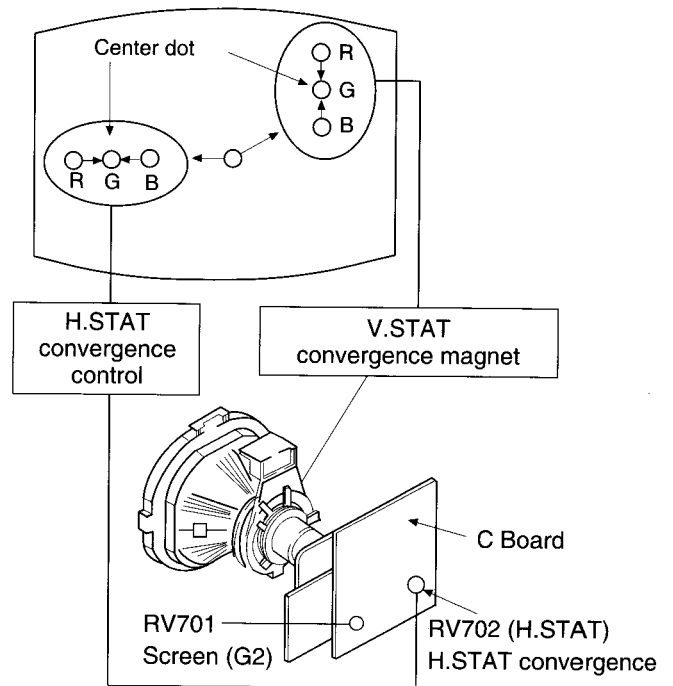
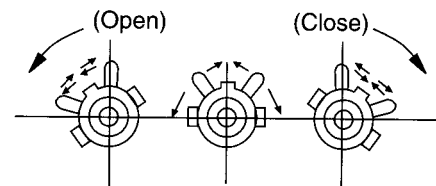


Fig.3-5



- If the horizontal dots are unable to coincide with the variable range of the H.STAT convergence, adjust together with the V.STAT convergence while tracking. (Adjust the convergence by tilting the V.STAT convergence or by opening or closing the V.STAT convergence.)



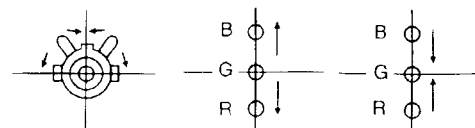
3-2. CONVERGENCE

(1) Screen center convergence (Static convergence)

1. Input a dot signal from the pattern generator. Normalize the picture setting.
2. (Moving horizontally), adjust the H.STAT control so that the horizontal red, green and blue dots coincide at the center of screen.
3. (Moving vertically), adjust the V.STAT magnet so that the vertical red, green and blue points coincide at the center of screen.

4. Movement of the red, green and blue dots by tilting the V.STAT magnet and by opening or closing the V.STAT magnet.

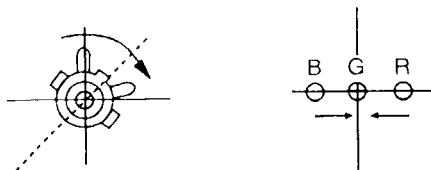
- ① By opening or closing the V.STAT magnet, the red, green and blue points move as shown below



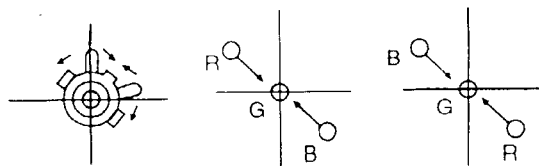
- ② By rotating the V. STAT magnet counterclockwise, the red, green and blue dots move as shown below.



- ③ By rotating the V.STAT magnet clockwise, the red, green and blue dots move as shown below.



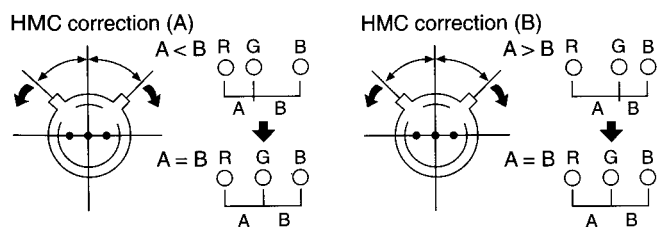
- ④ By opening or closing the V.STAT magnet, the red, green and blue dots move as shown below.



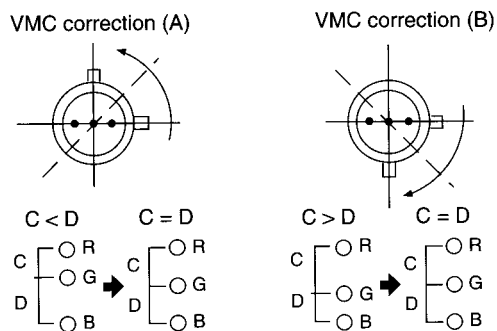
- If the blue dot does not coincide with the red and green points, correct the points by using the BMC (Hexapole) magnet.

- ⑤ Correction for HMC (horizontal mis-convergence) and VMC (vertical mis-convergence) by using the BMC (Hexapole) magnet.

- ① HMC correction by BMC (Hexapole) magnet and movement of the electronic beam.



- ② VMC correction by BMC (Hexapole) magnet and movement of the electronic beam.



Layout of each control

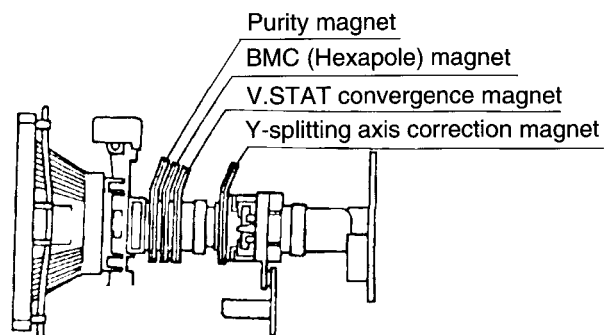
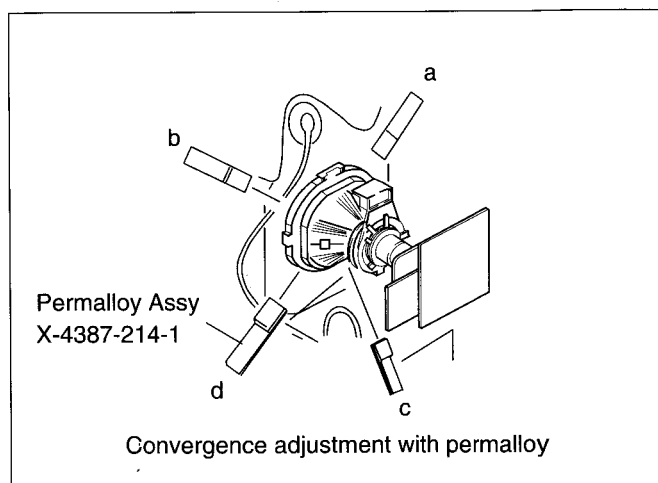
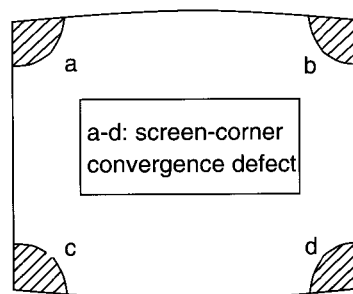


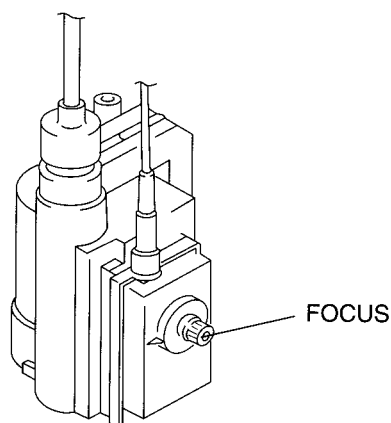
Fig.3-5

- If you are unable to adjust the corner convergence properly, correct them with the use of permalloys.



3-3. Focus

1. Receive a television broadcast signal.
2. Normalize the picture setting.
3. Adjust the focus control on the flyback transformer for the best focus at the center of the screen.
Bring only the center area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



3-4. Screen (G2), White balance (Adjustment in the service mode with remote commander)

G2 adjustment (RV702)

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 170V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust the G2 control RV701 [SCREEN] on the C board to the point just before the return lines disappear.

White balance adjustment

1. Receive an all-white signal.
2. Enter into the Service Mode by pressing 'TEST', 'TEST' and '01' on the Service Commander.
3. Select 'CRT Driver' from the on screen menu display and press **OK**.
4. The 'CRT Driver CXA1840' menu will appear on screen.

CRT Driver CXA 1840

Crt Driver		CXA1840
21	R DRIVE	41
22	G DRIVE	adj
23	B DRIVE	adj
24	R CUT-OFF	10
25	R C	0
26	G CUT-OFF	adj
27	G C	0
28	B CUT-OFF	adj
29	B C	0
30	AFC MASK	0
31	DRIVE LVL	52
32	SUB BRT	adj
33	H SWEEP SW	on
34	SKEW D	off
35	OUT DC	0

5. Set picture to MAX.
6. Set the 'R DRIVE' to 41.
7. Adjust the 'G DRIVE' and 'B DRIVE' with the **▲** **▼** buttons so that the white balance becomes optimum.
8. Press the **OK** button to write the data for each item.
9. Set picture to MIN.
10. Adjust 'R CUT-OFF', 'G CUT-OFF' and 'B CUT-OFF' with the **▲** **▼** buttons so that the white balance becomes optimum.
11. Press the **OK** button to write the data for each item.

SECTION 4

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander, RM-831.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing the + (plus) and - (minus) buttons on the customer front panel.

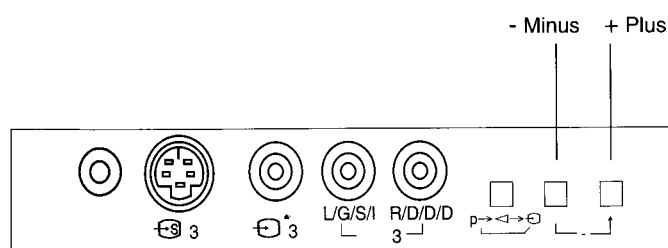


Fig. 4-1

2. "TT" will appear on the upper right corner of the screen.

Command operation in service mode

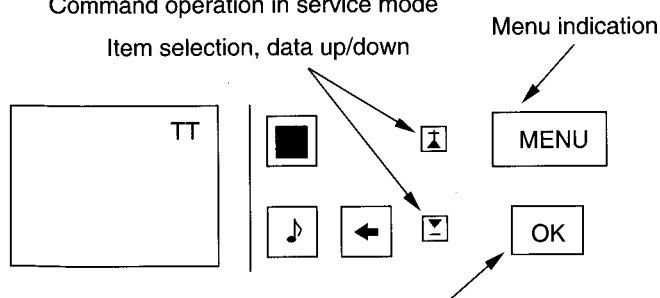






Fig. 4-2

Fig. 4-3 Selection completion, data written-in

3. Press "Test" "Test" and 01 on the commander to get the menu on screen.






AE -- V7-62	AE-3	08/06/95
Init TV		
PIP Adjust		
Adjustments		
Video Contr		
CRT Driver		
Dynamic Conv		
Video Proc		
PIP		
PIP Dynamic		
Aspect / Field		
SRC		
TDA6812		
PALPLUS		
TDA9160		
TDA9145		

4. Press the  and  buttons on the remote commander to select the adjustment item.
5. Press the  button to proceed to the next menu.
6. If the adjustment item is 'CRT Driver', press the  button to move to 'CRT Driver'.
7. The Menu as indicated in Fig 4-4 will appear on the screen.

	CRT Driver	CXA1840
1	V POS	adj
2	V SIZE	adj
3	V LIN BAL	adj
4	V LIN	adj
5	V SCROLL	127
6	V ASP PAP	2
7	H POS	adj
8	H SIZE	adj
9	H PIN CUSH	adj
10	H TILT	adj
11	H UP COR	adj
12	H LOW COR	adj
13	AFC V BOW	adj
14	AFC V ANGLE	adj
15	V COMP	5



Fig. 4-4

8. Press the  button to move > to the adjustment item and press the  button.
9. Press the  and  buttons to change the data in order to comply with each standard.
10. Press the  button to write data into memory.
11. Turn off the power to quit the service mode when adjustments have been completed.

CXA1839 (VIDEO CONT)

Item No	Adjustment item	Data Amount
1	SUB BRT	8
2	SUB COL1	8
3	SUB CONT1	8
4	PIC	53
5	HUE	31
6	COL	31
7	BRT	31
8	SHP	31
9	SUB HUE	7
10	D.COIL	off
11	SHP LIM	off
12	AGE WHT	off
13	R-Y/R	13
14	R-Y/B	15
15	G-Y/R	7
16	G-Y/B	5
17	RGB LEV2	8
18	SUB SHP	1
19	SUB FO	2
20	PRE/OVER	0
21	NR LEVEL	1
22	DC TRAN	0
23	DYN PIC	1
24	CEC LEVEL	2
25	VM LEVEL	2
26	ABL MODE	1
27	DYN ABL	off
28	Y SYM SW	off
29	AGE BLK	off

CXD2035 (ASPECT)

Item No	Adjustment item	Data Amount
1	COMPRESS	7
2	FRAME WID	5

CXD2030 (VIDEO PROCESSOR)

Item No	Adjustment item	Data Amount
1	DNR	on
2	DNR VALUE	5
3	TA SYN CLP	16
4	TB BGP	50
5	TD CLP	25
6	FOTO CD SW	off
7	BLK PORCH	16
8	NT TD BGP	25
9	PAL TD BGP	25
10	N.SECAM TB	50
11	SECAM TB	50
12	358 NR LVL	3
13	443 NR LVL	5

CXD2033D (PIP DYNAMIC)

Item No	Adjustment item	Data Amount
1	443DSP BGP	19
2	358DSP BGP	38
3	SE DSP BGP	19
4	443 LRD H	39
5	358 LRD H	41
6	443MN MPWH	213
7	358MN MPWH	174
8	443 ACC R.	52
9	358 ACC R.	42
10	443MN R RD	39
11	358MN R RD	27
12	FRAME PIP	10
13	FRAME MPX	3

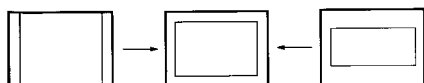
Typical Value (OSD based) when receiving PAL Philips pattern.

DEFLECTION SYSTEM ADJUSTMENT

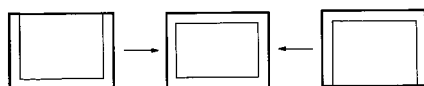
1. Enter into the service mode and select 'CRT Driver'. The 'CRT Driver CXA1840' adjustment menu will be displayed.
2. Select and adjust each item in order to get an optimum image.

Item No	Adjustment item	Data Amount
1	V POS	adj
2	V SIZE	adj
3	V LIN BAL	adj
4	V LIN	adj
5	V SCROLL	127
6	V ASP PAP	2
7	H POS	adj
8	H SIZE	adj
9	H PIN CUSH	adj
10	H TILT	adj
11	H UP COR	adj
12	H LOW COR	adj
13	AFC V BOW	adj
14	AFC V ANGLE	adj
15	V COMP	5
16	H COMP	0
17	WV CENT RF	144
18	WV AREA RF	36
19	W CENT VCR	160
20	W AREA VCR	20

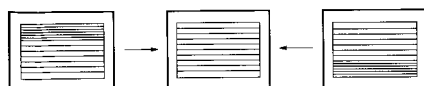
V SIZE



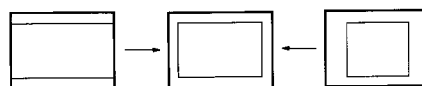
V POS



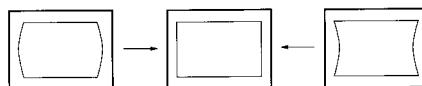
V LIN



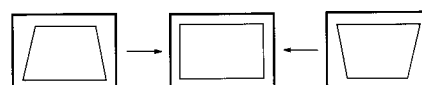
H SIZE



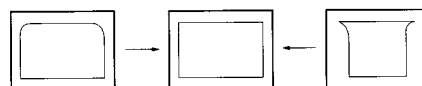
H PIN CUSH



H TILT



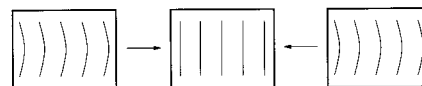
H UP COR



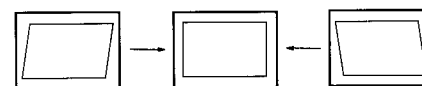
H LOWER COR



AFC V BOW



AFC V ANGLE



H POS



3. Press **OK** button to write the data.

If the menu display prevents viewing the screen while carrying out the adjustments, it can be removed by pressing **⏏** on the remote commander. Pressing **⏏** once again will restore the menu on screen.

4-2. VOLUME ELECTRICAL ADJUSTMENTS

AGC Adjustment (IF Block)



- IF Block top side -



Fig. 4-5

1. Receive an off-air signal.
2. Adjust the AGC VR so that there is no snow noise and cross-modulation visible on the screen.
3. Change the receiving channel and confirm status.

Sub Brightness Adjustment

1. Input a Phillips pattern.
2. Select 'RESET' from the menu to normalize the set.
3. Set the CONTRAST to minimum.
4. Press "Test" "Test" and 01 on the remote commander.
5. Adjust the BRIGHTNESS with the +/- buttons on the remote commander after selection of 'Sub Bright' so that the 0 IRE section of the gray scale is completely cut off and the 20 IRE section is only just visible on the screen.
6. Press 'MENU' and '0' twice to release Test mode 2.
7. Select 'RESET' from the menu to normalize the set.

Picture Rotation Adjustment

1. Input a PAL color bar signal.
2. Press the **MENU** button on the commander to get the menu on screen.
3. Press the  and  buttons of the commander and move > to PRESET/TIMER followed by INSTALLATION and PICTURE ROTATION.

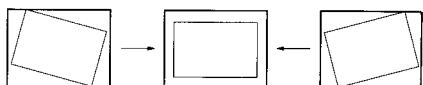
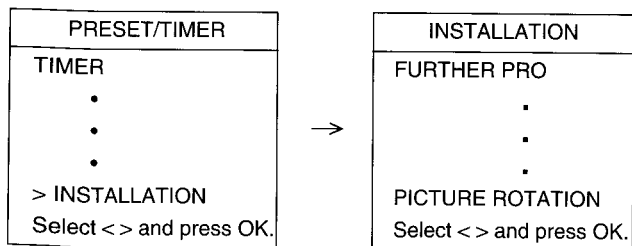


Fig. 4-6

4-3. TEST MODE 2:

Is available by pressing the Test button twice, OSD "TT" appears. The functions described below are available by pressing the two numbers. To release Test Mode 2, press 0, 10, 20 ... twice or switch the TV into Standby Mode. Pressing the two Local Control buttons (+ and -) during Power ON will also switch into "TT" mode.

In TT mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the menu to reappear. The Function is kept even when the menu is not displayed!!

00	Switch back to normal mode - TT mode off
01	Switch service menu on
02	Direct access to Noise reduction
03	Set Volume to 30%
04	Service Menu in "Service Mode"
05	Service Menu in "Production Mode"
06	Set Volume to 80%
07	Aging mode
08	Shipping condition (Production request) To ensure that all TV sets leave the Production with the same presettings. Programme 1 is selected, AV IN is set to AV1, AV Out is set to TV Out, Volume and HP Volume is set to 35%, Resolution is set to high, Format is set to 4:3, Pip is set to Top Left position, Pip is switched off, TT mode is switched off, all analogue values are set to the reset setting, space Sound - Equalizer - Loudness = off, DNR off, Dig. Mode = 1, Wide Zoom Mode for 28W models, Menu Language Reset, Prog. Pointer table reset Non Interlace is allowed in Text mode.
09	Language reset. With this function the "Language Byte" in the NVM (Bank 0AAH Address 0DCH) is erased (set to 0FFH). The Language Menu appears now automatically when the TV set is switched ON as long as no new language is selected.
10	The TT number will be deleted. All numbers with 0 (10, 20, 30, 40, 50, 60, 70, 80, 90) will reset the TT number. A new number can be selected. TT display is kept
11	Direct access to Balance. With Cursor Up/Down the Balance can be controlled (w/o OSD, Menu display)
12	Direct access to Hue. With Cursor Up/Down the Hue can be controlled (w/o OSD, Menu display)
13	Display of Software Version and TV set configuration
14	Production Info Display
15	Read factory setting from ROM (Program code) and store this data at Last Power Memory data location (The previous last power memory data is overwritten) AE3 has 3 packages of Analogue data: 1. Last Power memory data. This data is sent continuously to the corresponding IC's (TDA1839, SC, TDA6812) with this data the TV picture/sound appears. 2. Reset data. By pressing "Reset" in the menu this data is transferred from Reset Data location to the Last Power data location in the NVM. That means the Last Power Memory Data is overwritten by the Reset data last Power memory and Reset data is now the same. 3. Factory fixed data. Fixed data is held in the ROM code of the micro processor (ROM can't be changed)

16	Save actual Last Power Memory data at Reset Data location)The previous Reset data is overwritten)
15/16	With these two functions, it is possible to preset user defined Reset values (just TT16) or to preset factory defined Reset values (first TT15 then TT16)
17	This function presets the Labels for the AV sources: AV1, RGB, AV2, YC2, AV3, YC3, AV4, YC4.
18	Text possible On/Off selection of Text (toggle function)
19	Direct access to Stereo Separation With cursor Up/Down the Stereo separation can be adjusted (w/o OSD, Menu display)
20	see TT10
21	Picture Rotation automatic function : (-4) -> (+4) -> 0
22	Operating Timer and Error Monitor display
23	Direct access to Sub Brightness Adjustment With cursor Up/Down the Sub BRT can be adjusted (w/o OSD, Menu display)
24	Direct access to Sub Color. With Cursor Up/Down the Sub Color can be adjusted.
25	Status menu display (SubController, CXA1840 Status, Main Controller.
26	Text Character selection (Char set 06 ->West Europe)
27	Text Character selection (Char set 38 ->East Europe)
28	Text Character selection (Char set 40 ->West Europe) US English
29	Text Character selection (Char set 55 ->West Europe) Turkish
30	see TT10
31	Text Character selection Char set Russian
32	Text Character selection Char set Greek
33	Programme catching test (Programme catching can be released by "Menu command")
34	Multi PIP adjustment. Direct access to 3.58 horizontal write position. With Cursor Up/Down the 3.58 H write Pos can be adjusted (w/o OSD, Menu display).
35	Multi PIP adjustment. Direct access to 4.43 horizontal write position. With Cursor Up/Down the 4.43 H write Pos can be adjusted (w/o OSD, Menu display).
36	Mtx Register 112 = intern display clock
37	Mtx Register 112 = extern display clock

38	Automatic selection of Screen Modes: (not for S (4:3) Models. 4:3 -> Zoom -> Zoom up -> Zoom Center -> Zoom down -> Zoom Center -> smart -> (if Pal+ signal) PALPLUS -> wide.
39	Reset Programme Table (NVM Bank 0ACH) The sorting of programmes in "Programme Sorting Menu" is reset.
40	see TT10
41	no function
42	no function
43	no function
44	no function
45	Set NVM to Protect mode (Bank 0AEH ADR. 0FFH write with 0)
46	IR Channel Presetting Mode. The channel presetting can be done by a Special IR transmitter Sequence: TT46 -> -- PR Number select display appears Select Prog. No from where the channel shall be stored. --> Now TV is waiting for IR sequence <-- --> If no IR transmission starts TT46 is released after 20 secs <-- !Note: When TT46 is active, any transmission will be interpreted as PROG data !
47	Direct access to Headphone Source Selection (Production use)
48	Direct access to AGC Adjustment (PWM) output.
49	The EEPROM Testbyte is erased. After Power OFF -> ON the complete EEPROM data (except channel tables) is overwritten. EEPROM Protection byte is set to 0 protection mode
50	see TT10
51	Strobe mode is activated.
52	no function.
53	Photo mode test (Photo mode can be released by "Menu command").
54	Direct access to Velocity Modulation VM (Production use)
55	MTX Slicer Control "Low Pass" (only Sys L)
56	MTX Slicer Control "No Compensation"
57	Megatext Service Menu ON
58	MTX Small Framing Code Window
59	MTX Wide Framing Code Window
60	see TT10

61	Set Dolby default values.
62	ACI disable.
63	ACI enable.
64	Reset all IIC Slave commands (Production use)
65	Reset stored error codes in NVM.
66	Reset for PALplus local controller and Sub Controller.
67	Direct access to Headphone Volume. With cursor Up/Down the Headphone Volume can be controlled (w/o OSD, menu display) (Production use)
68	ignore errors.
69	reset ignore errors (show errors)
70	see TT10
71	Picture Rotation Function On/Off toggle.
72	Dolby register setting menu.
73	Megatext RGB textlevel one step decreased (max 3 steps down starting from E0h) (Production use)
74	Megatext RGB textlevel one step decreased (max 1 steps down starting from E0h) (Production use)
75	reserved
76	CXD 2030 Default data setting.
77	CXD 2031 Default data setting
78	CXD 2032 Default data setting
79	CXD 2033 Default data setting
80	see TT10
81	CXD 2033D Default data setting
82	CXD 2035 Default data setting
83	CXA 1526 Default data setting
84	CXA 1839 Default data setting
85	CXA 1840 Default data setting
86	TDA 9145 Default data setting
87	TDA 9160 Default data setting
88	no function
89	no function
90	see TT10

4-4. ERROR MONITOR AND DETECTION

In the menu 'Error Monitor', information about the error status of the set is displayed.

- Actual operating time
- Last five errors which are stored in the NVM.
- Actual error.

Error Monitor
Operating Time 000355 h 35min
Saved Errors 1. 40h=D1 Board 2.. 60h=Q Board 3. 70h=T Board 4. 00h=no error occurred 5. 00h=no error occurred
Actual Error -> 00h=no error occurred
to reset the NVM press 'TT' 65

Additionally the Error Reader can be connected to the service connector to read out the actual errors.

The device check itself is active while the TV set is running out of stand-by mode. The devices are checked by sending an I²C start sequence and if there is no acknowledgement back from the devices it is regarded as an error. Each device is checked three times and if at every attempt there is no reply from the relevant device an error is given. To read the error codes press 'TT' followed by 22 on the commander to view the Error Monitor menu.

To reset the error codes in the NVM press 'TT' followed by 65 on the remote commander.

TABLE OF ERROR CODES

Error Code	Device	Description	Board
000h	no device	no error has occurred	-
001h	IIC 1 and IIC 2	IIC 1 and IIC 2 blockaded	-
002h	IIC 1	IIC1 is blockaded	-
003h	IIC 2	IIC 2 is blockaded	-
010h	A Board	A Board is defective	-
020h	A1 Board	A1 Board is defective	-
030h	BX-Board (B,B1,B2)	B, B1, or B2 Board is defective	-
040h	D1 Board	D1 Board defect	-
050h	J Board	J Board defect	-

Error Code	Device	Description	Board
060h	Q Board	Q Board defect	-
070h	T Board	T Board defect	-
011h	CXP85332	No response from the Subcontroller	A
012h	ST24C16	No response from the NVM	A
013h	SDA5273	No response from the Megatext IC	A
014h	TDA6812	No response from the Sound Processor	A
015h	SAA7283	No response from the Nicam Decoder	A
016h	UV916H	No response from the Main Tuner	A
017h	CXA1839Q	No response from the Video Controller	A
018h	CXA1840	No response from the CRT Driver	A
019h	RGB8443	No response from RGB/YUV	A
021h	TDA6622	Audio processor of the Center and Surround channel in the case of Dolby Prologic does not respond.	A1
022h	TDA7317	No response from the Equalizer.	A1
031h	CXD2030R	No response from the Digital Video Processor.	B/B1
032h	CXD2031R	No response from the Twin Picture IC.	B1
033h	CXD2032R	No response from the Digital Sampling Rate Converter.	B/B1
034h	CXD2033R	No response from the Picture in Picture IC.	B
035h	CXD2035R	No response from the Aspect Converter.	B/B1
036h	TDA9160	No response from the Chroma Decoder.	B/B1
037h	TDA9145	No response from the Chroma Decoder (on French models only.)	B2
041h	CXA1526	No response from the Convergence IC.	D1
051h	CXA1855	No response from the AV-Switch	J
061h	83C65202	No response from the Local Controller.	Q
071h	UV1316/TSA5526	No response from the Subtuner.	T
072h	CXA1875	No response from the Port Expander.	T

4-5. LED Error Blinking

In addition to the Error Monitor facility there is an additional error indicator which indicates the most important errors also in the case of IIC error and Megatext error in opposition to the error monitor.

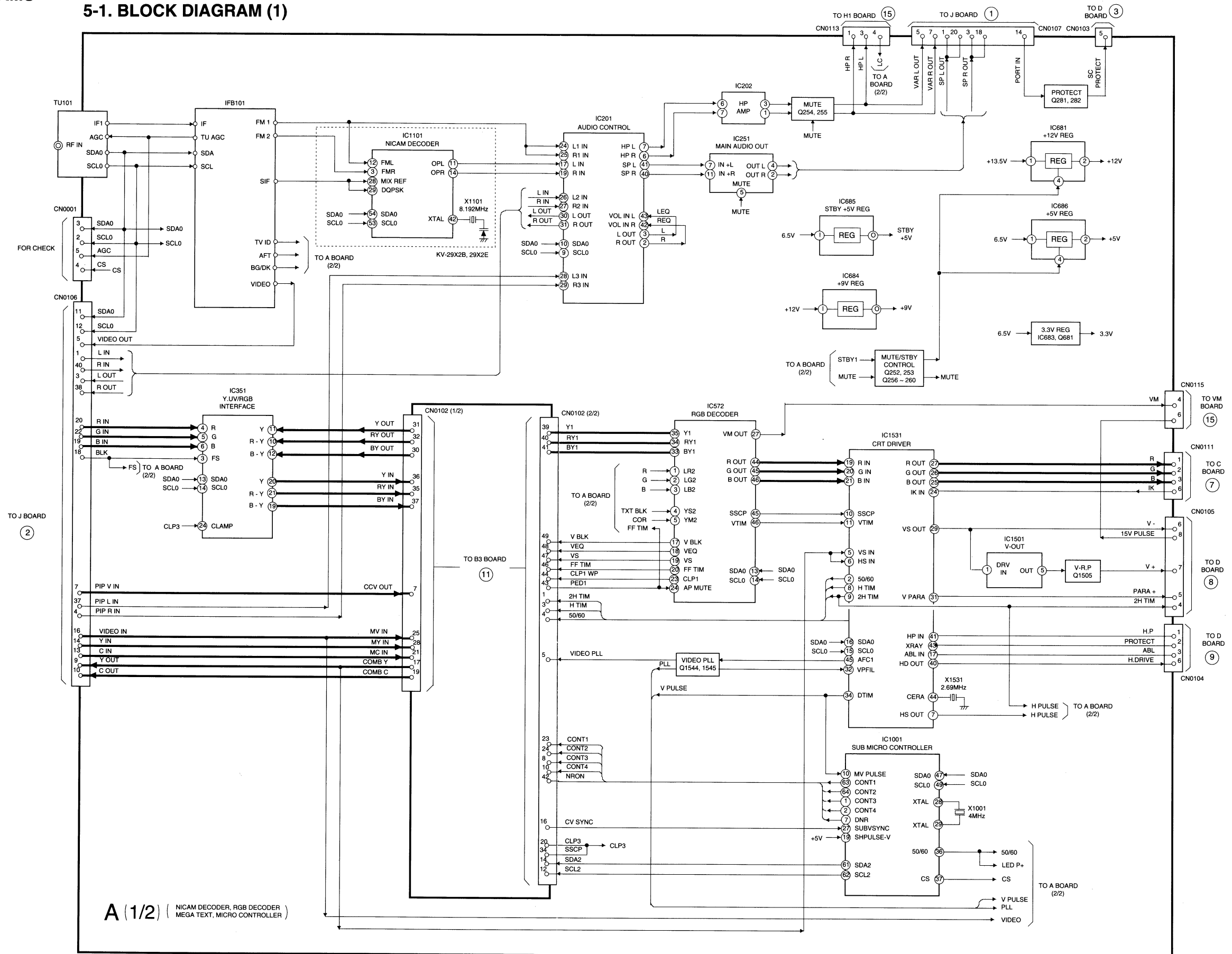
The error is recorded by counting the number of times that LED B blinks. This facility also works while in stand-by mode.

LED Error Code.

Error	number of LED B blinking	Description	Board
0	1	general IIC error	-
1	2	ST24C16 NVM error	A
2	3	CXP85332 subcontroller error	A
3	4	CXD2030R error of Digital Video Processor	B/B1
4	5	CXD2032R error of Digital Sampling Rate Converter	B/B1
5	6	CXD2035R error of Aspect Converter	B/B1
6	7	TDA1839 error of Video Controller	A
7	8	TDA1840 error of CRT Driver	A
8	9	CXA1855 error of AV switch	J
9	11	SDA5273 error of Megatext	A
10	12	TDA6812 error of Sound Processor	A
11	16	V-Protection (In this case the TV set is switched of immediately)	-

KV-29X2

**A (1/2) (NICAM DECODER, RGB DECODER
MEGA TEXT, MICRO CONTROLLER)**



**A (2/2) (NICAM DECODER, RGB DECODER
MEGA TEXT, MICRO CONTROLLER)**

The schematic diagram illustrates the internal architecture of the NICAM decoder, RGB decoder, mega text, and micro controller. The central component is the **IC001 MAIN MICRO CONTROLLER**, which is connected to various external components and the board.

Key Components and Connections:

- IC001 MAIN MICRO CONTROLLER:**
 - Inputs:** DATA, SCL0, SDA0, +5V, TV ID, AFT, BG/DK, EN, CLOCK, LC, FS DET, H SYNC/50 V PULSE/100, STBY 1, MUTE, SUB SW, ROT(+), ROT(-), H PULSE, PLL, VIDEO, R, G, B.
 - Outputs:** LED A, LED B, SIRCS, LED RESP, LED P+, TV ID-M, AFT-M, BG/DK-M, A0, SCI, LC, FSDT, HSYNC, V PULSE, STANDBY, MUTE, AV-SWS, PIC PATITION, OSD DEF, MIX RESET, RES BLAN, COR, VS, HS, CLK, CVBS, R, G, B.
- SWITCH Q010:** Connected to +5V and SDA0.
- RESET Q002, Q005 - 008:** Connected to +5V and IC001.
- WATCH PULSE:** Connected to IC001.
- XTAL1, XTAL2:** Connected to IC001 and CD001 12MHz.
- CS EXTERNAL, TXD, RXD, M3 LEN:** Connected to IC001 and IC2003 D-RAM.
- IC2701 ROTATION AMP:** Connected to ROT(+), ROT(-), and +12V.
- LEVEL SHIFT Q2002:** Connected to IC001 and IC2001.
- INVERTER Q2004, 2008:** Connected to IC001 and IC2001.
- IC2001 PULSE/CLK GENERATOR:** Connected to H PULSE, PLL, and IC001.
- IC2002 MEGA TEXT:** Connected to IC001 and IC2003 D-RAM.
- IC072 EP ROM:** Connected to IC001.
- IC2003 D-RAM:** Connected to IC001.
- Remote Receiver (H2):** Connected to IC001 via SIRCS and LED RESP.

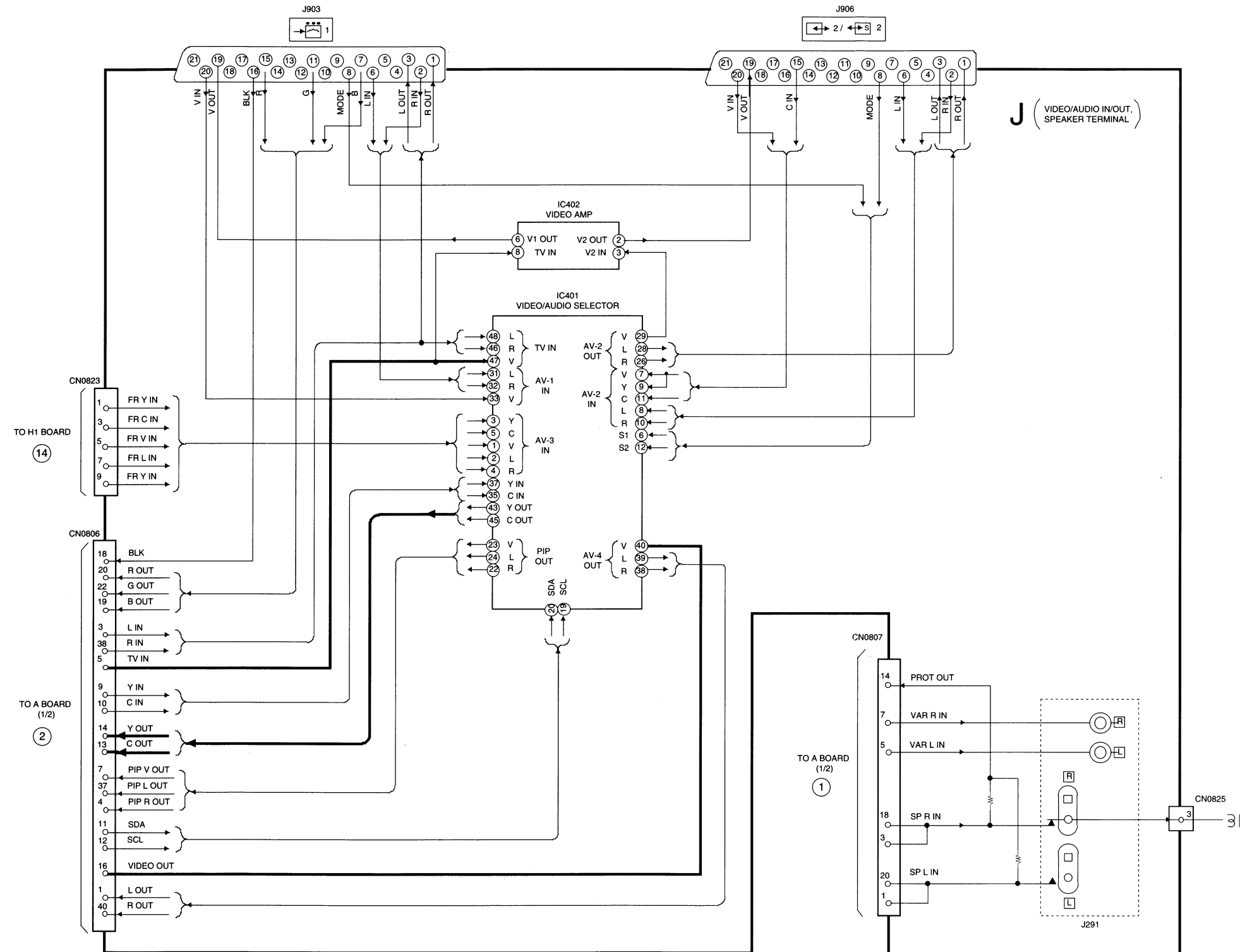
TO A BOARD (1/2) Connections:

- DATA, SCL0, SDA0, +5V, TV ID, AFT, BG/DK, EN, CLOCK, LC, FS DET, H SYNC/50 V PULSE/100, STBY 1, MUTE, SUB SW, ROT(+), ROT(-), H PULSE, PLL, VIDEO, R, G, B.

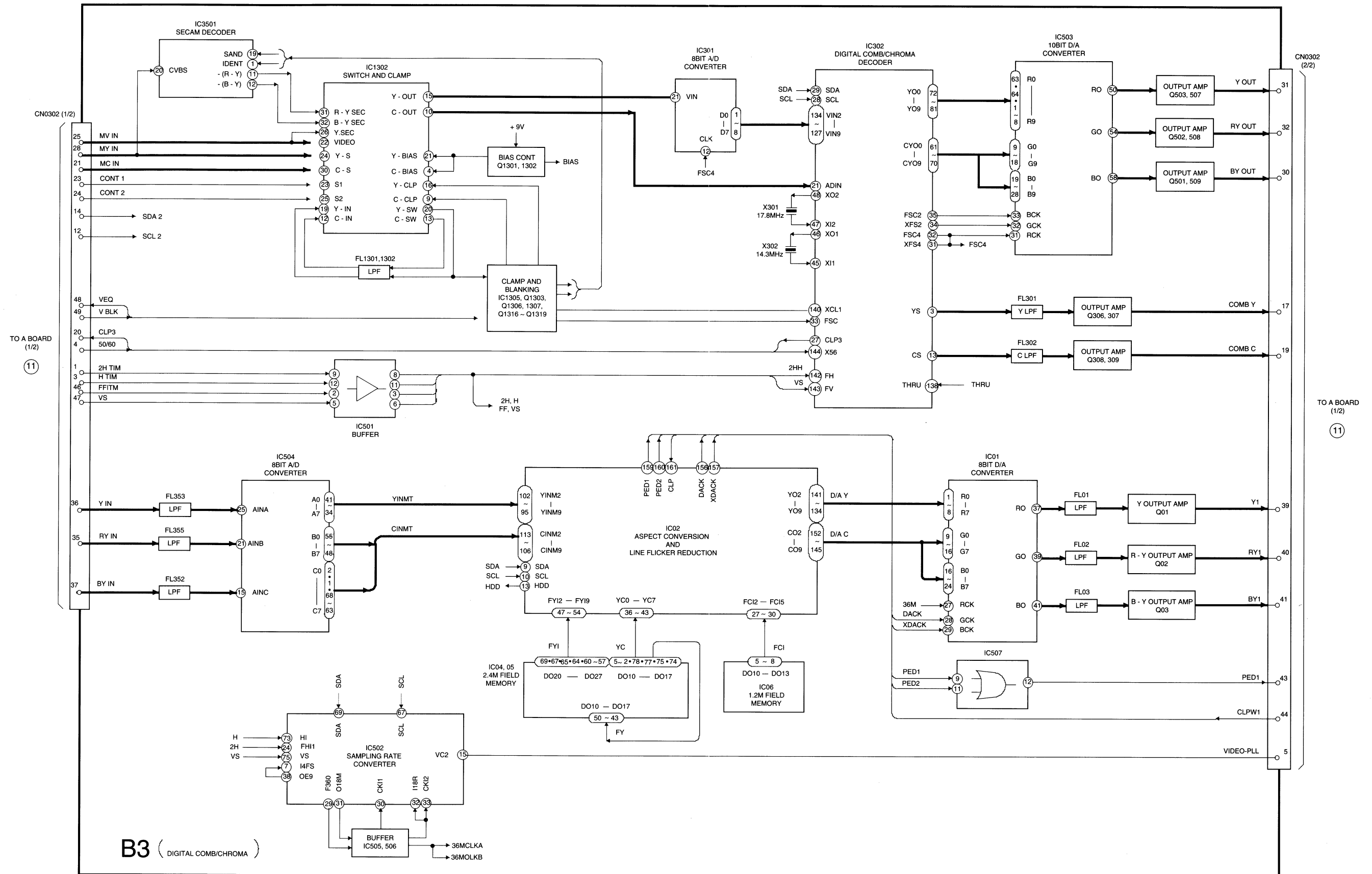
Remote Receiver (H2) Details:

- Inputs:** STBY +5V, D092, D094, D093, A.
- Outputs:** LED RESP, LED B, LED A, SIRCS.

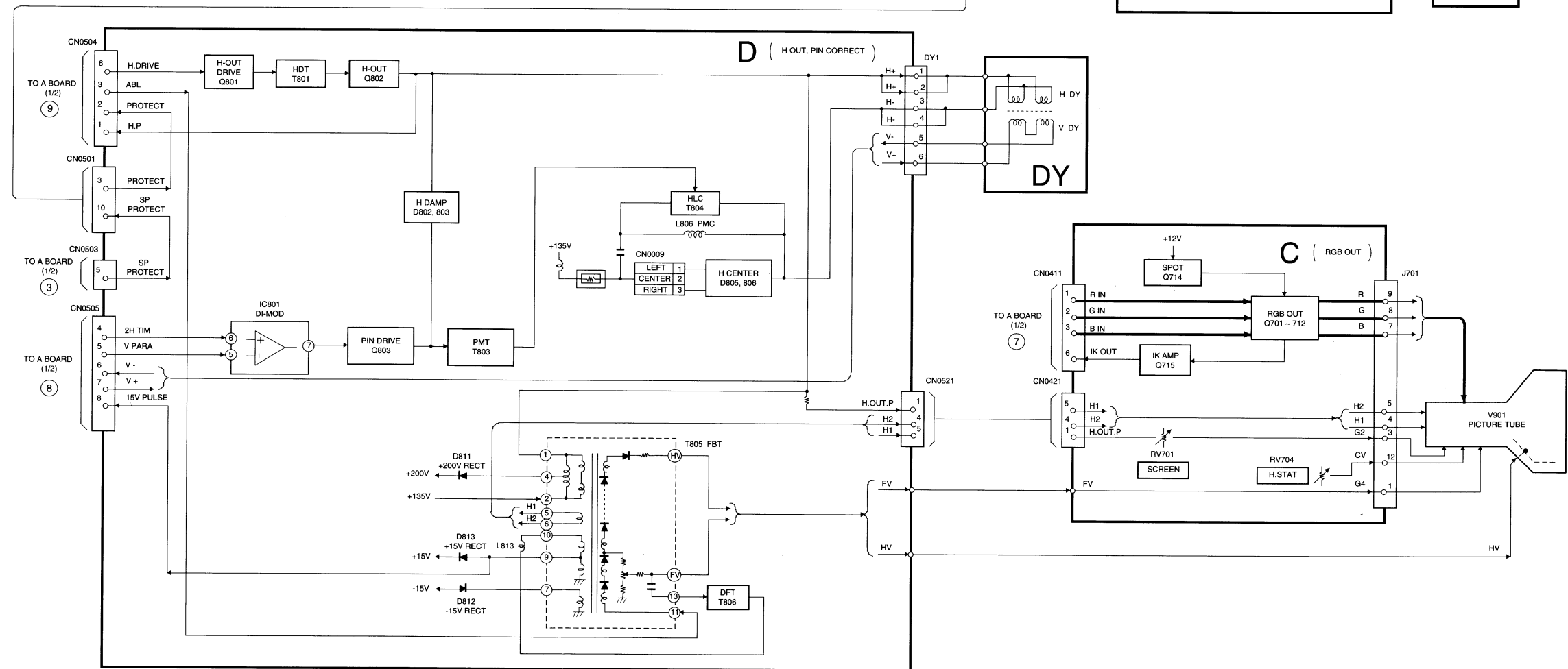
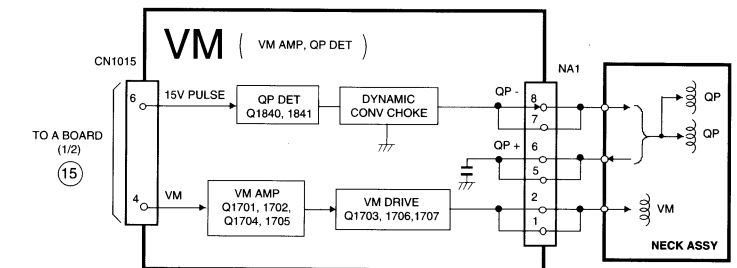
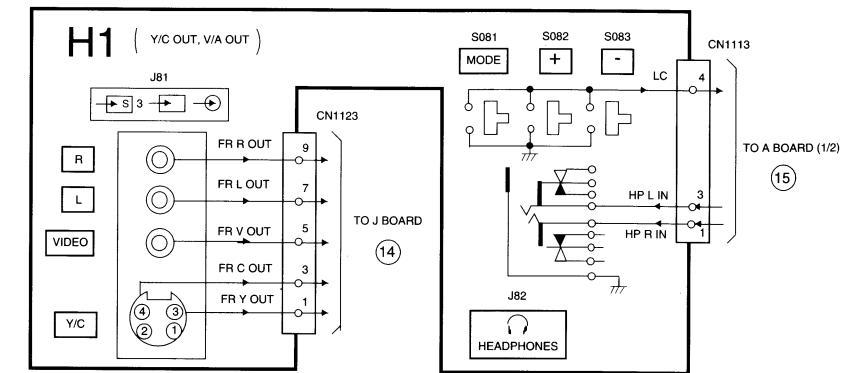
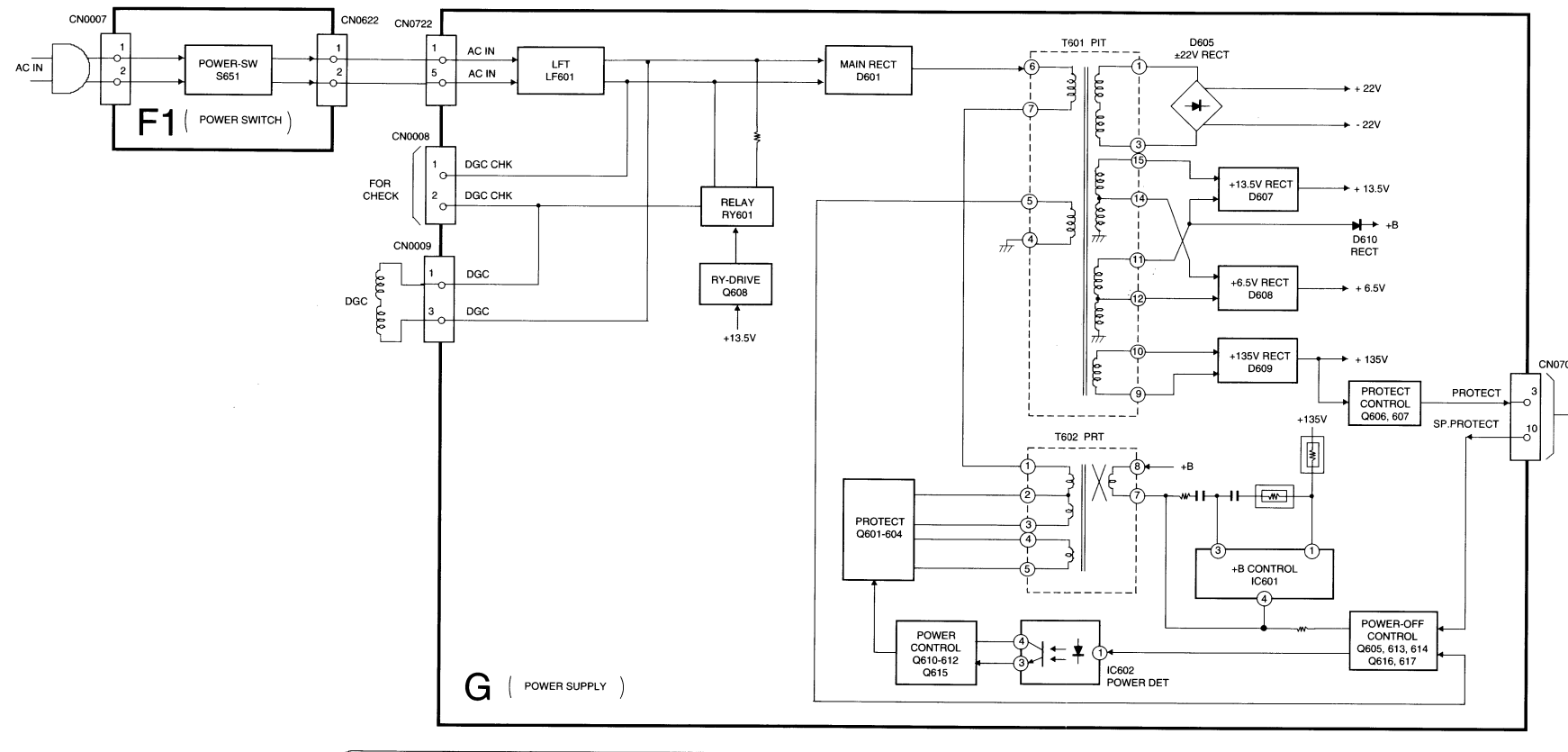
BLOCK DIAGRAM (3)

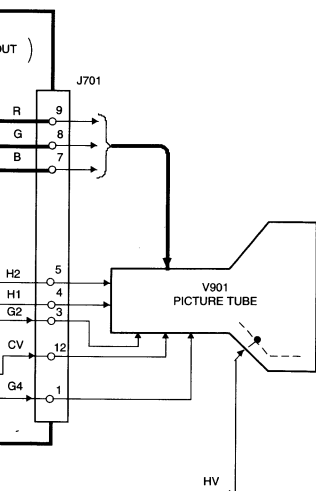
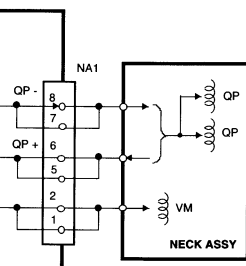
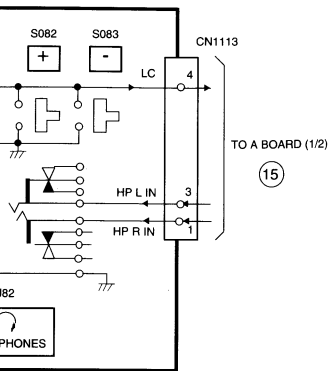


BLOCK DIAGRAM (4)

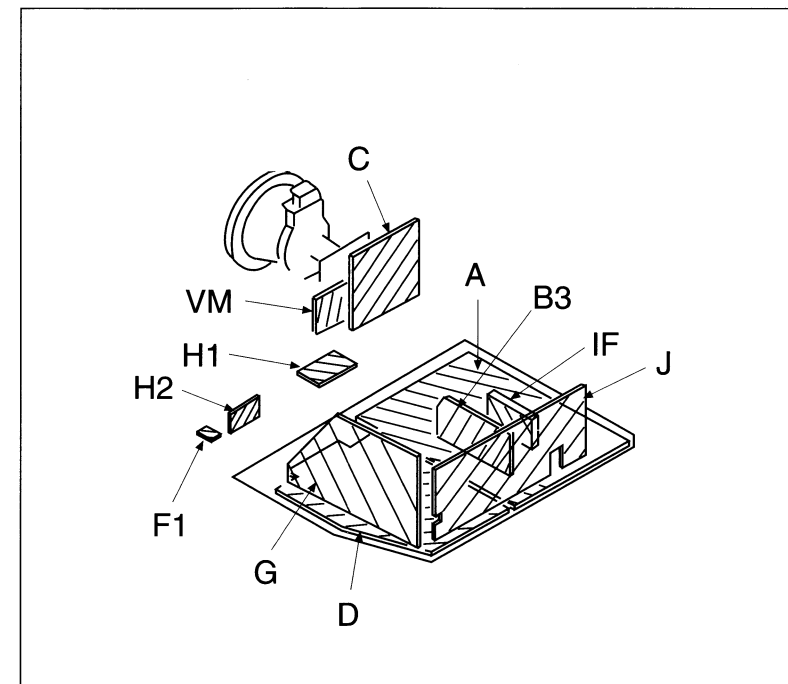


BLOCK DIAGRAMS (5)





5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$
50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.
 $k = 1000$, $M = 1000K$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5 mm
Rating electrical power $\frac{1}{4}$ W

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- \perp : earth - ground.
- /// : earth - chassis.
- --- : no mounted.

Note : The components identified by shading and marked are critical for safety. Replace only with the part number specified.

Note : Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

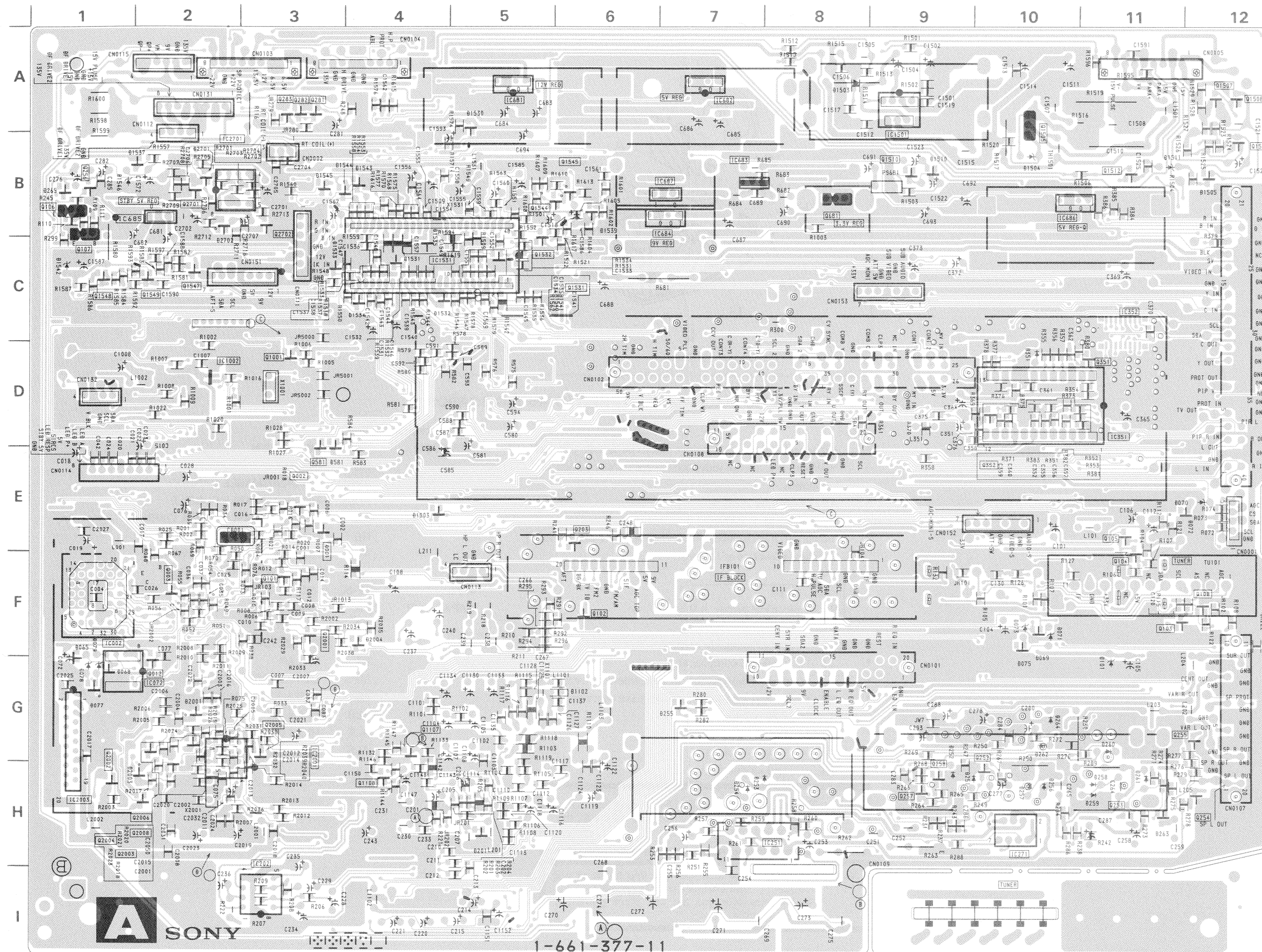
Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
COIL	:	ADJUSTABLE RESISTOR
	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

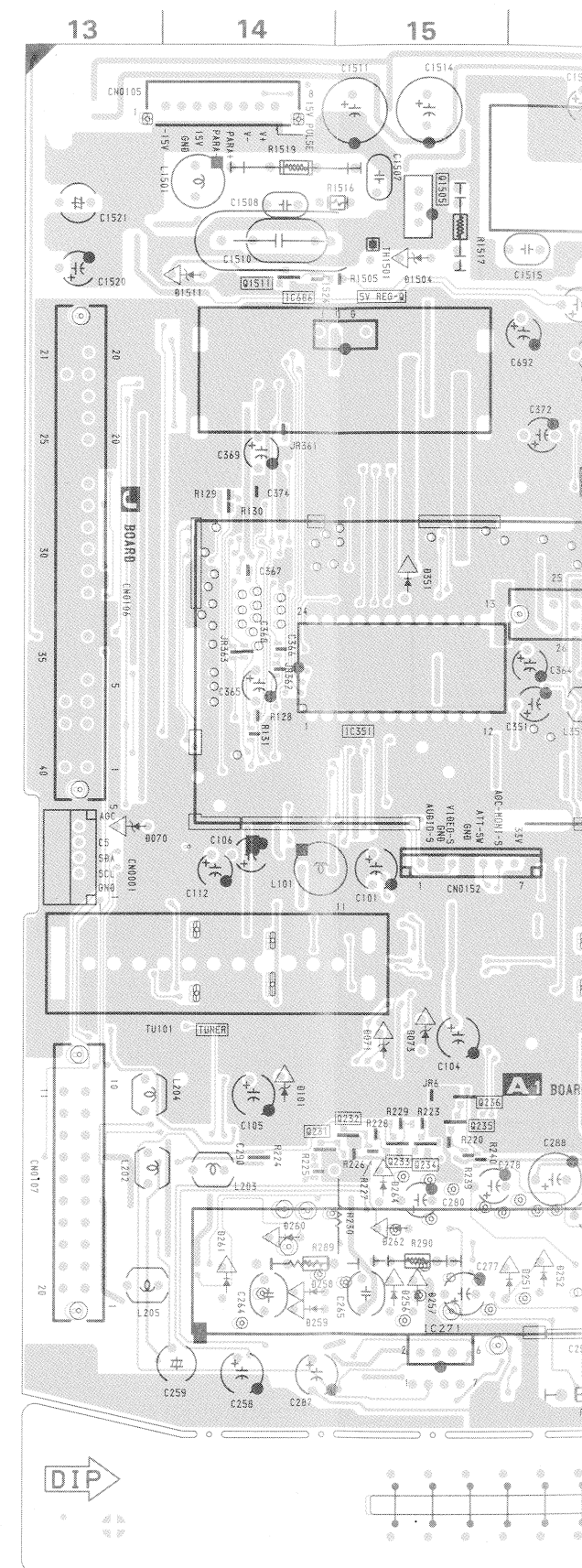
- Readings are taken with a colour-bar signal input.
- Readings are taken with 10M Ω digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- : B+ bus.
- : signal path. (RF)

ANICAM DECODER, RGB DECODER
MEGA TEXT, MICRO CONTROLLER

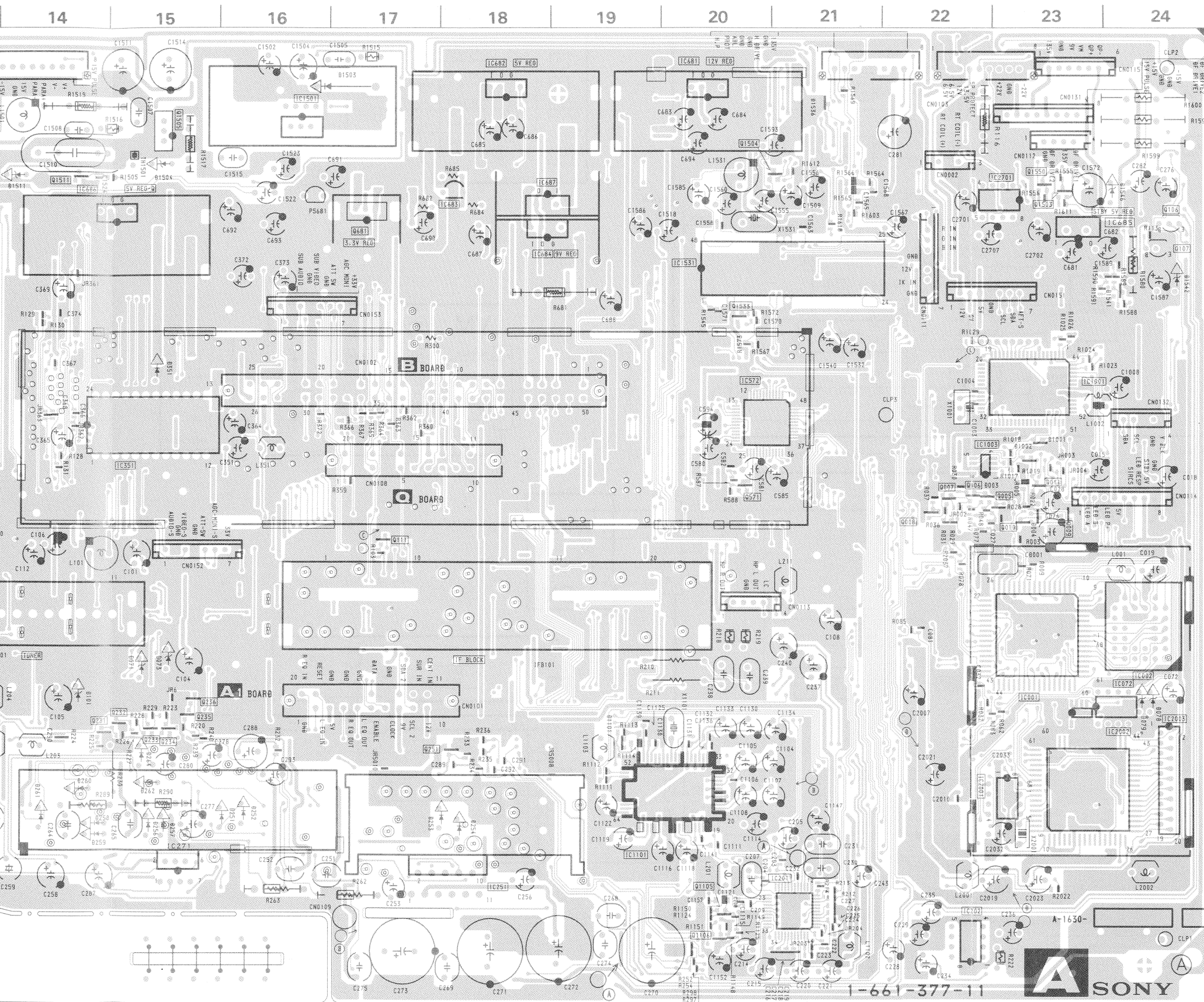
A Board <Conductor Side>



A Board <Component Side>



Component Side



A BOARD *MARK

Model	29X2A	29X2B	29X2D	29X2E
Ref. No.				
C106	4.7MF 50V	100MF 16V	4.7MF 50V	4.7MF 50V
C109	—	15PF	—	—
IFB101	IFH-389WE	IFH-389FX	IFH-389WE	IFH-389WE
JR201	0:CHIP	—	0:CHIP	—
JR202	0:CHIP	—	0:CHIP	—
L1103	—	68UH	—	68UH
R364	0:CHIP	—	0:CHIP	0:CHIP
R365	0:CHIP	—	0:CHIP	0:CHIP
R366	0:CHIP	—	0:CHIP	0:CHIP
R367	—	0:CHIP	—	—

A BOARD

IC									
IC001	F-23	Q203	E-6	Q1549	C-2	D351	D-10		
IC072	G-2	Q252	G-10	Q1550	B-23	D581	E-3		
IC201	H-21	Q253	H-11	Q2001	F-3	D1001	D-23		
IC202	H-3	Q254	H-12	Q2002	G-1	D1002	D-23		
IC251	H-8	Q255	G-12	Q2004	H-1	D1003	E-4		
IC351	D-11	Q256	B-1	Q2005	G-3	D1101	G-19		
IC572	D-20	Q257	H-9	Q2006	H-2	D1102	G-6		
IC681	A-5	Q258	G-9	Q2008	H-2	D1503	A-8		
IC683	B-7	Q281	A-3	Q2701	B-2	D1504	B-10		
IC684	B-7	Q282	A-3			D1505	B-12		
IC685	B-1	Q351	D-11			D1510	B-9		
IC686	B-10	Q352	E-10			D1511	B-11		
IC1001	D-23	Q571	E-20			D1530	A-5		
IC1101	H-19	Q581	E-3			D1533	C-3		
IC1501	A-9	Q681	B-8			D1534	C-4		
IC1531	C-4	Q1001	D-3			D1536	A-21		
IC2001	G-3	Q1105	H-20			D1537	B-2		
IC2002	G-24	Q1106	I-20			D1539	B-6		
IC2003	H-1	Q1107	G-4			D1542	C-1		
IC2701	B-2	Q1108	H-4			D1543	B-4		
		Q1503	B-23			D1544	B-3		
		Q1504	B-20			D1545	B-3		
		Q1505	B-10			D1546	B-1		
		Q1506	B-12			D2001	G-2		
		Q1507	A-12			D2004	F-4		
		Q1508	A-12			D2701	B-2		
		Q1510	B-9						
		Q1511	B-14						
		Q1512	B-11						
		Q1531	C-6						
		Q1532	C-5						
		Q1533	C-20						
		Q1544	B-5						
		Q1545	B-6						
		Q1547	C-2						
		Q1548	C-1						

DIODE									
D001	E-3								
D003	E-23								
D004	E-23								
D068	G-1								
D069	F-10								
D071	F-10								
D073	F-10								
D075	F-10								
D077	G-1								
D078	G-1								
D079	F-1								
D101	F-11								
D201	H-5								
D251	H-9								
D252	G-9								
D253	H-7								
D254	H-7								
D255	G-7								
D260	G-11								
D261	H-11								
D262	G-10								
D263	H-11								
D265	B-1								

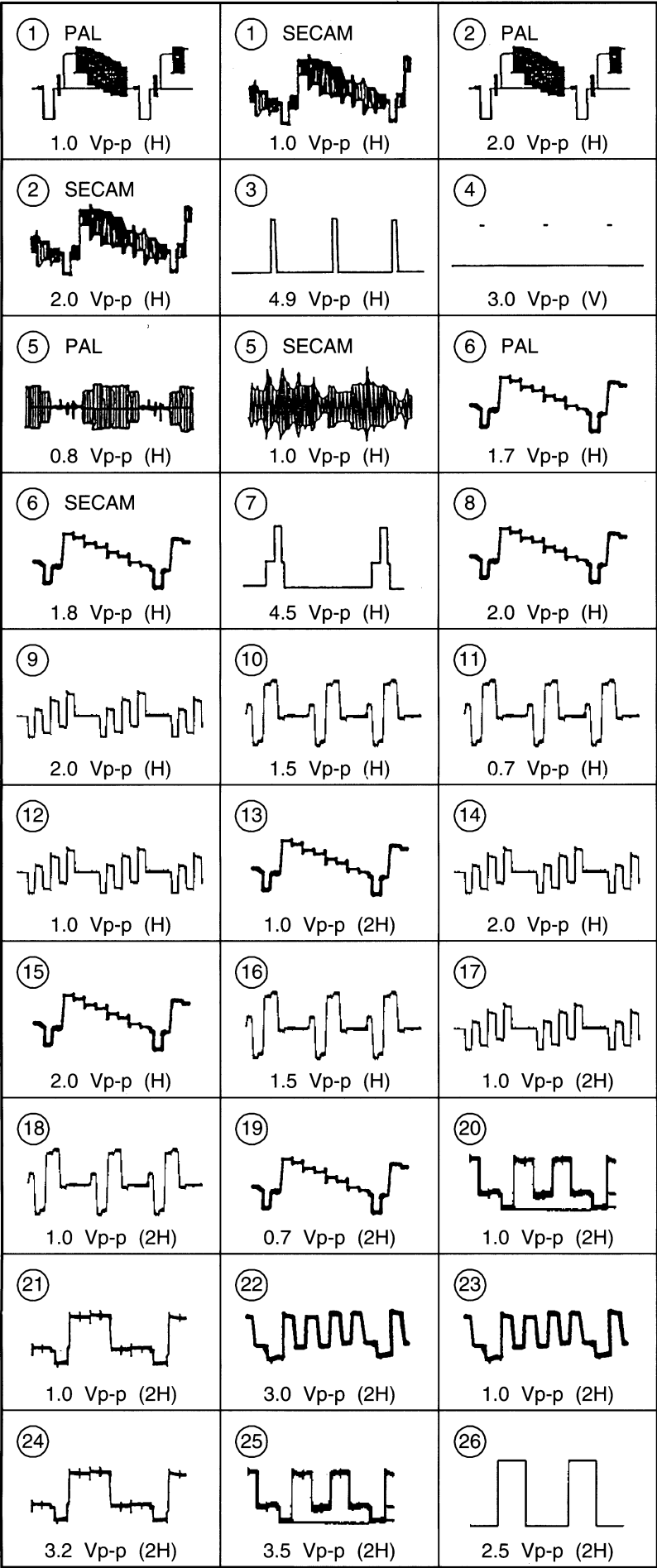
TRANSISTOR

Q002	E-3
Q005	E-23
Q006	E-22
Q007	E-22
Q008	E-22
Q009	E-23
Q010	E-23
Q011	E-23
Q102	F-6
Q103	F-11
Q106	B-1
Q107	C-1

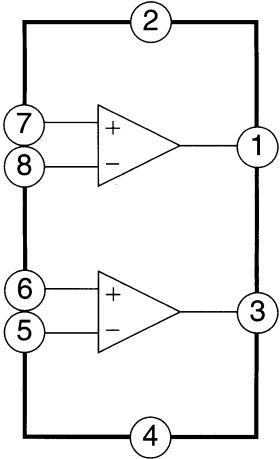


① PAL 1.0 Vp-p (H)	① SECAM 1.0 Vp-p (H)	② PAL 2.0 Vp-p (H)
② SECAM 2.0 Vp-p (H)	③ 4.9 Vp-p (H)	④ 3.0 Vp-p (V)
⑤ PAL 0.8 Vp-p (H)	⑤ SECAM 1.0 Vp-p (H)	⑥ PAL 1.7 Vp-p (H)
⑥ SECAM 1.8 Vp-p (H)	⑦ 4.5 Vp-p (H)	⑧ 2.0 Vp-p (H)
⑨ 2.0 Vp-p (H)	⑩ 1.5 Vp-p (H)	⑪ 0.7 Vp-p (H)
⑫ 1.0 Vp-p (H)	⑬ 1.0 Vp-p (2H)	⑭ 2.0 Vp-p (H)
⑮ 2.0 Vp-p (H)	⑯ 1.5 Vp-p (H)	⑰ 1.0 Vp-p (2H)
⑱ 1.0 Vp-p (2H)	⑲ 0.7 Vp-p (2H)	⑳ 1.0 Vp-p (2H)
㉑ 1.0 Vp-p (2H)	㉒ 3.0 Vp-p (2H)	㉓ 1.0 Vp-p (2H)
㉔ 3.2 Vp-p (2H)	㉕ 3.5 Vp-p (2H)	㉖ 2.5 Vp-p (2H)

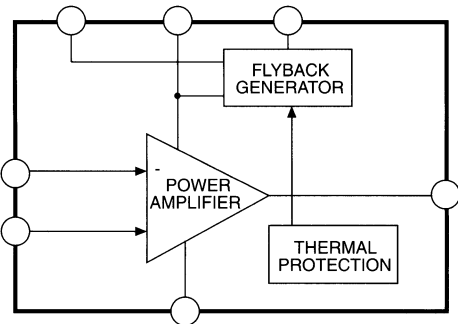
WAVEFORMS A BOARD



A Board IC202 TDA2822M



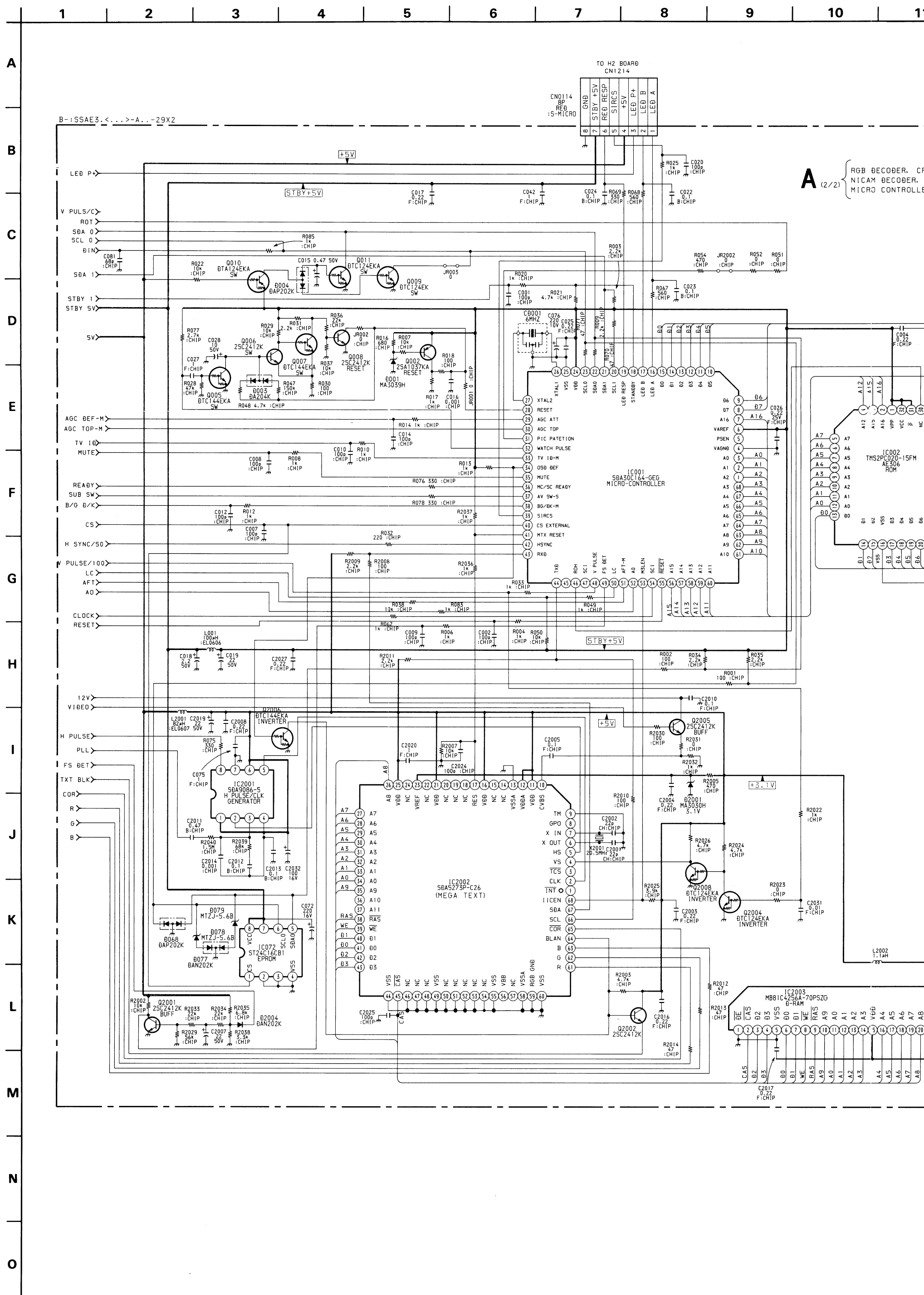
A Board IC1501 STV9379

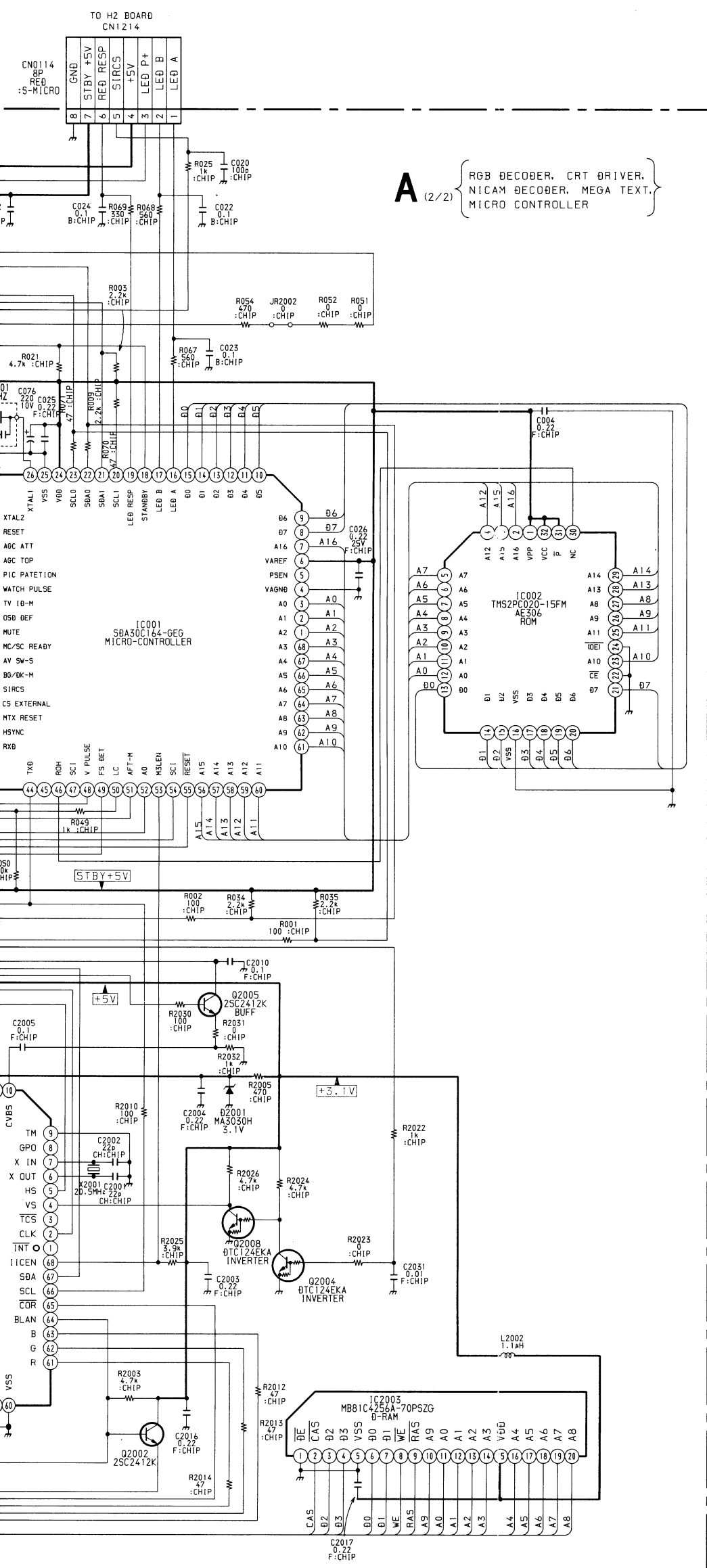


Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)
IC1001	1	0	IC201	44	GND		5	3.6
	2	0		45-47	2.1		6	3.0
	3	5.0		48	GND		7	3.1
	4	4.0		49-50	4.4		8	1.7
	5-6	-		51-52	-		9	1.8
	7	0		53-54	4.0		10	0.8
	8-9	-		55-60	-		11	0.5
	10	0.2		61	4.4		12	GND
	11	-		62	GND		13	9.0
	12	1.5		63	2.2		14	0
	13-18	-		64	-		15	3.8
	19	1.0		1	0		16	4.0
	20-25	-		2-7	6.1		17	4.4
	26	GND		8	12.0		18	8.7
	27	2.0		9-10	4.0		19-21	3.6
	28	2.5		11	0.1		22	0.8
	29	2.5		12	0		23	2.4
	30	4.0		13-15	3.0		24	5.0
	31-54	-		16	0		25	2.1
	55	GND		17-19	6.1		26	2.2
	56	5.0		20	0		27	2.1
	57	5.0		21	6.1		28	8.0
	58	GND		22	0		29-32	4.0
	59-60	-		23-31	6.1		33	5.1
	61	6.3		32-35	0		34	0.2
	62	4.2		36-43	6.1		35	2.4
	63	0		44	0		36	9.0
	64	0	IC202	1	5.4		37	GND
IC1101	1-2	-		2	12.0		38	0
	3	1.0		3	5.4		39	5.0
	4	2.2		4	GND		40	2.1
	5-6	-		5	0.5		41	2.2
	7	2.2		6-7	0		42	4.2
	8	0		8	0.5		43	0
	9-10	-	IC2701	1-3	4.4		44	-
	11	2.2		4.0	-		45-47	4.6
	12	1.0		5-7	-		48	4.4
	13-14	-		8.0	0	IC1501	1	2.2
	15	GND		9.0	0.2		2	14.0
	16	2.2	IC1003	1-4	GND		3	-14.0
	17	4.0		5-6	5.0		4	-16.0
	18-21	-		7	GND		5	-1.4
	22	2.2		8	5.0		6	14.5
	23	0	IC251/261	1	-20.0		7	2.2
	24	-		2	0	IC681	1	13.3
	25	2.2		3	20.0		2	12.0
	26	-		4	0		3	GND
	27-30	2.1		5	10.0		4	2.3
	31-33	-		6	-20.0	IC682	1	5.7
	34	1.8		7-8	0		2	5.0
	35-37	2.1		9	GND		3	GND
	38	4.1		10-11	0		4	2.3
	39	GND	IC1531	1	3.7	IC683	1	2.4
	40	-		2	0.3		2	GND
	41	1.7		3	5.8		3	4.0
	42	3.1		4	GND	All Voltages are indicated in Volts DC		
	43	2.1						

Ref.No.	Pin No.	Voltage (V)
IC684	1	11.9
	2	GND
	3	9.0
IC685	1	5.8
	2	GND
	3	5.0
IC686	1	5.6
	2	5.0
	3	GND
	4	2.3
IC572	1-3	6.0
	6	9.0
	7	GND
	8-10	9.0
	11-12	GND
	13-14	4.0
	15	0.8
	16	0.6
	17	0.5
	18-20	0.3
	21-22	NC
	23	0.2
	25	4.0
	26	4.7
	28-30	GND
	31	9.0
	32	GND
	33-35	4.4
	37-39	GND
	41	2.5
	42	GND
	44-45	2.7
	46	2.6
	47	8.7
	48	NC

Pin No.	(B) Base	(C) Collector	(E) Emitter
Ref.No.			
Q102	4.7	0	0
Q103	0	1.7	0
Q106	31.4	32.0	32.0
Q107	0.5	0	0
Q203	0.6	0.1	0
Q251	0.6	0	0
Q252	0	0.6	0
Q253	13.4	-0.4	13.4
Q254	-2.1	0	0
Q255	-2.0	0	0
Q256	-0.1	2.3	0
Q257	0.6	0	0
Q259	21.5	10.5	21.1
Q260	0	21.5	0
Q351	2.8	1.7	3.5
Q352	1.8	0	2.5
Q571	6.4	9.0	5.7
Q581	0.6	0	0
Q1001	0.3	0	1.0
Q1105	3.0	5.6	2.4
Q1107	3.0	5.8	2.4
Q1108	5.8	11.8	5.2
Q1502	0.4	9.0	-3.7
Q1531	5.6	0	6.1
Q1532	9.0	4.4	9.0
Q1533	0.5	0.4	0
Q1544	1.1	4.5	0.6
Q1545	4.5	9.0	4.0
Q1447	4.4	-9.0	5.0
Q1548	6.4	9.0	5.7
Q1549	0.9	-0.2	1.4
Q1532	-1.2	3.0	-1.8



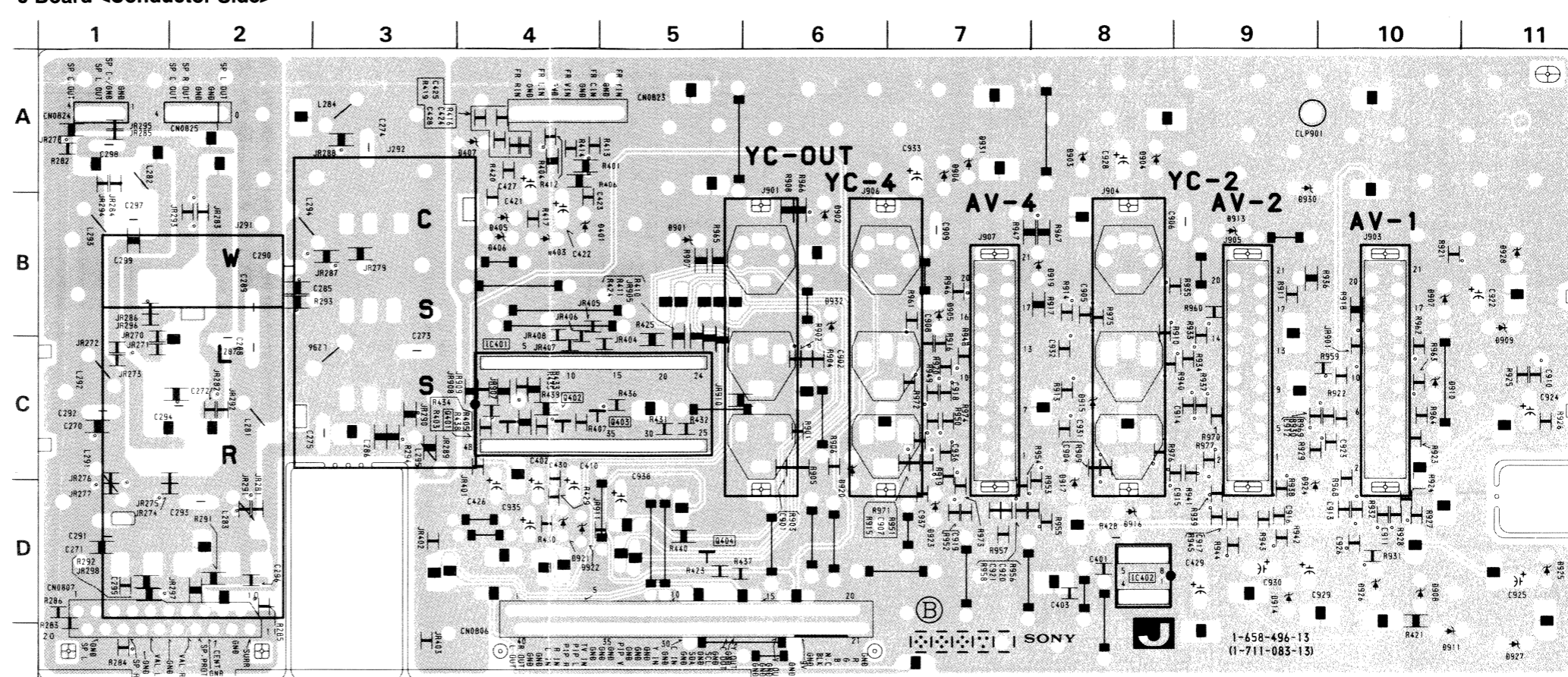


Ref.No.	Pin No.	Voltage (V)
IC001	6	5.0
	16-17	3.7
	18	2.5
	19	3.6
	20-21	5.0
	22-23	4.0
	24	5.0
	26	2.1
	27	2.3
	28	4.7
	29	0
	30	4.8
	31	2.4
	32	1.6
	34	5.0
	36	5.0
	37	3.4
	38	3.3
	39-40	5.0
	41	0.1
	42	0.4
	43	5.0
	44	4.8
	48	0.3
	49	1.3
	50	5.0
	51	2.4
	52	5.0
	53	4.5
	54	5.0
	55	3.8
IC002	1	5.0
	31-32	5.0
IC2002	2	1.5
	4-5	0.1
	6-7	1.7
	10	0.8
	11-12	5.0
	16	5.0
	17	0.1
	21	5.0
	23	3.0
	25	5.0
	45	4.4
	65	0.6
	66-67	5.0
	68	4.5
IC2003	15	4.5

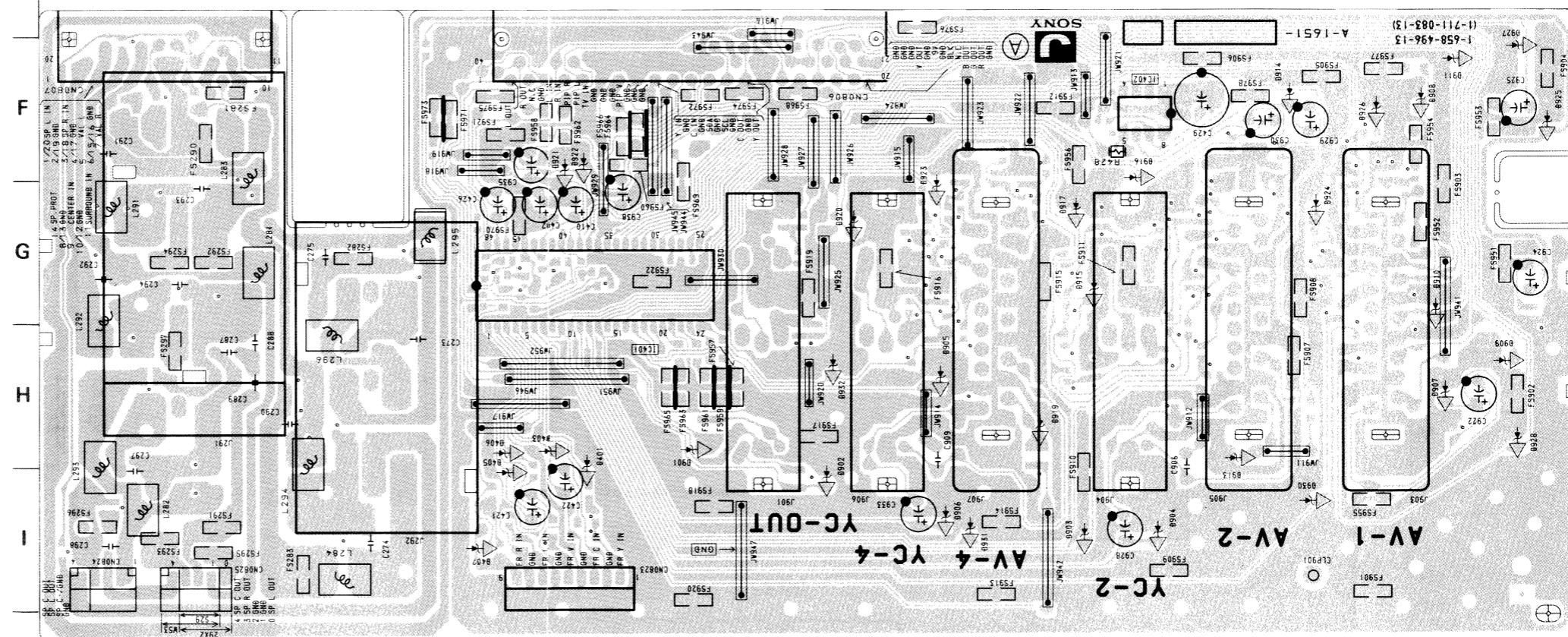
Pin No.	(B) Base	(C) Collector	(E) Emitter
Q002	4.2	4.7	4.8
Q005	-0.1	0	0
Q006	0	4.8	0.8
Q007	4.8	0.9	0.8
Q008	0.3	4.8	0
Q2001	0.3	5.0	0
Q2002	0	4.8	0
Q2004	0.3	4.0	0
Q2005	3.8	12.0	3.1
Q2006	0.1	0	0
Q2008	4.0	0.1	0

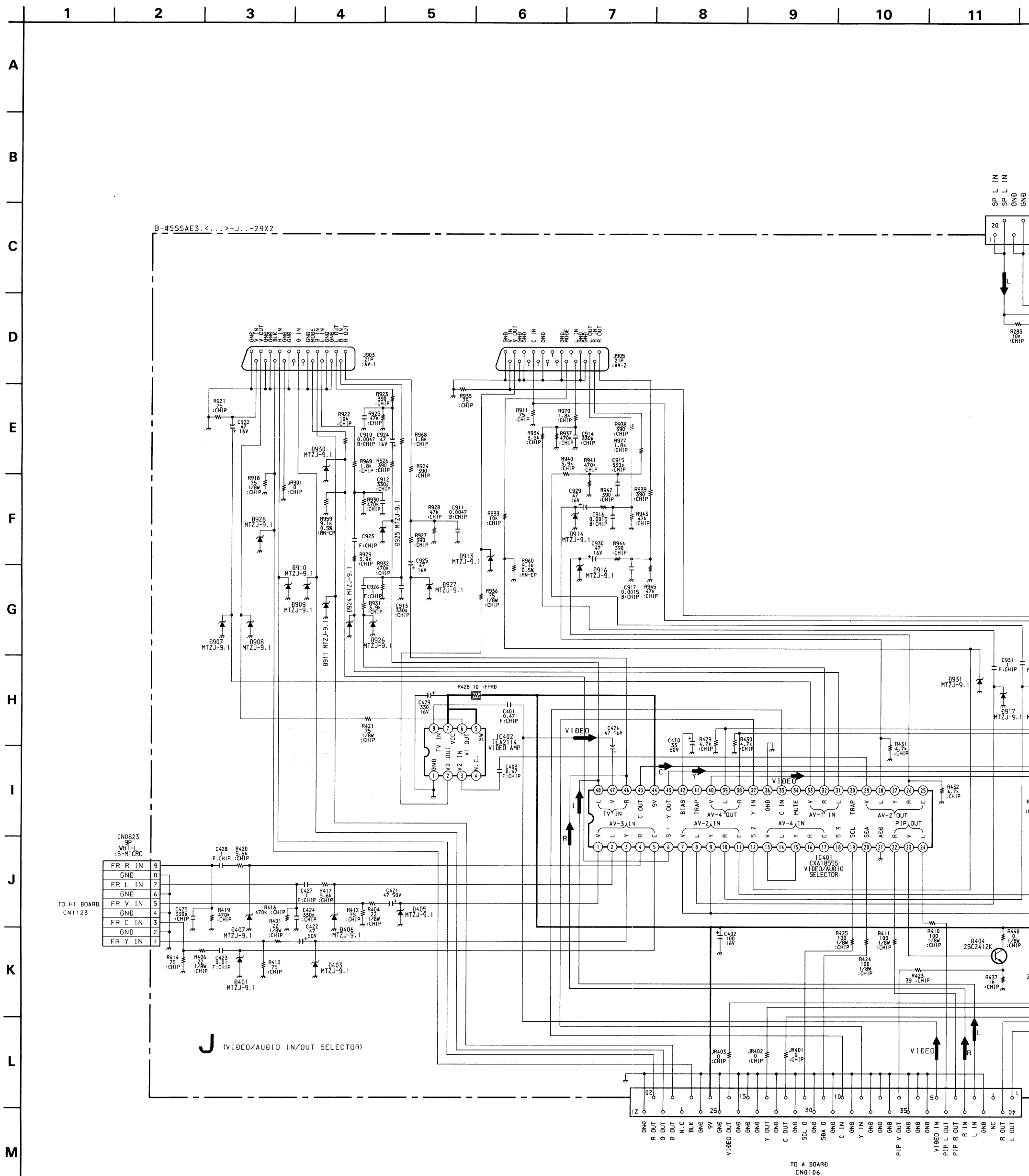
J BOARD

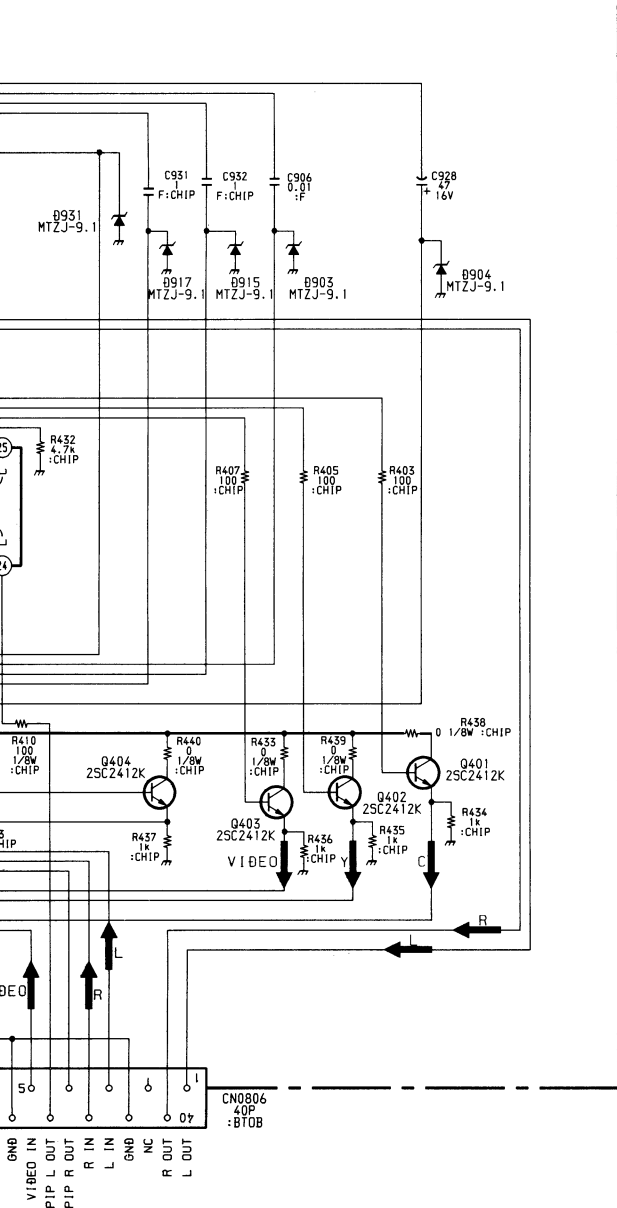
IC	
IC401	C-4
IC402	D-8
TRANSISTOR	
Q401	C-3
Q402	C-4
Q403	C-5
Q404	D-5
DIODE	
D401	B-4
D403	B-4
D405	B-4
D406	B-4
D407	A-4
D903	A-8
D904	A-8
D907	B-10
D908	D-10
D909	B-11
D910	C-10
D911	E-10
D913	B-9
D914	D-9
D915	C-8
D916	D-8
D917	C-8
D924	C-9
D925	D-11
D926	D-10
D927	E-11
D928	B-11
D930	B-9
D931	A-7



J Board <Component Side>

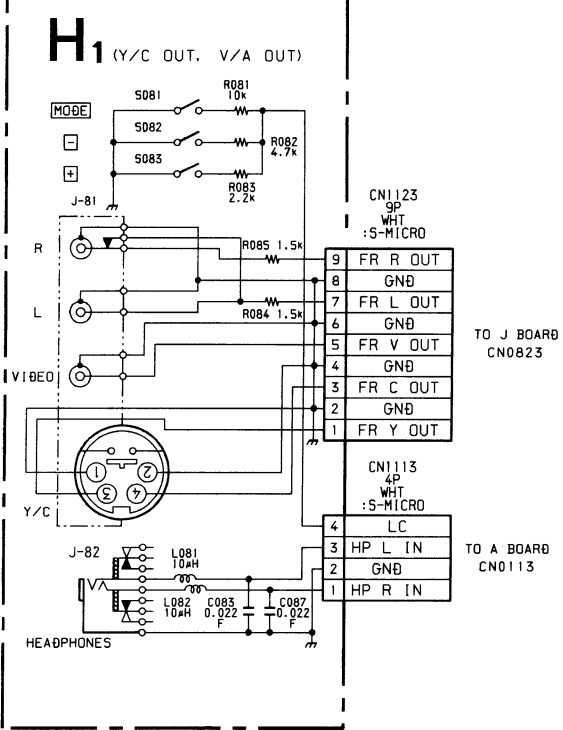






Pin No. Ref.No.	(B) Base	(C) Collector	(E) Emitter
Q401	5.7	9.0	-C.3
Q402	5.5	9.0	5.0
Q403/404	4.4	9.0	3.9

B-#SSAE3.<...>-H1.-29X2



H1

[Y/C, VIDEO/AUDIO OUT]

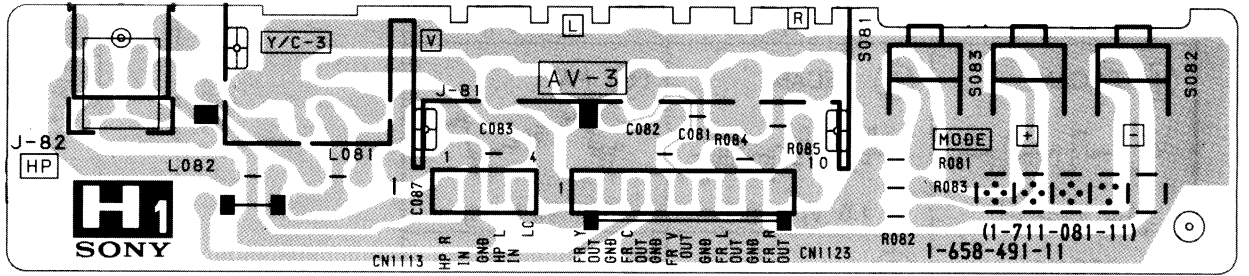
H2

[REMOTE RECEIVER]

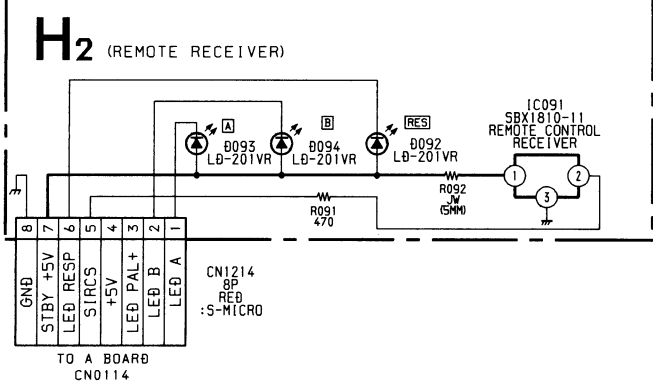
F1

[POWER SWITCH]

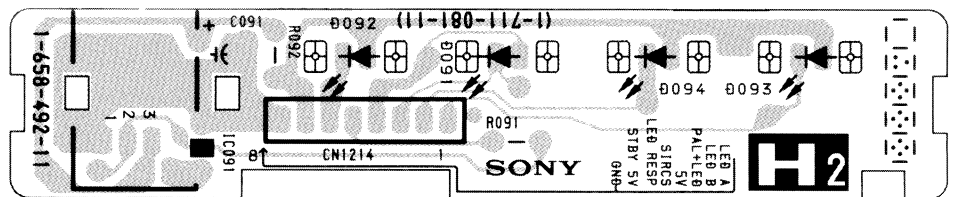
H1 Board



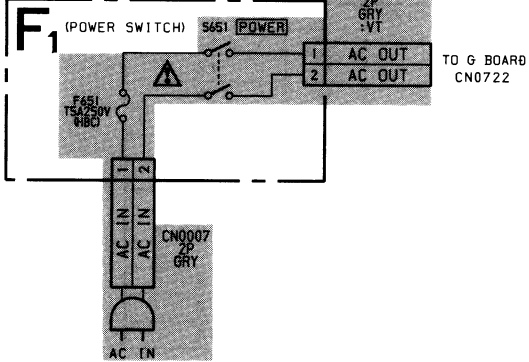
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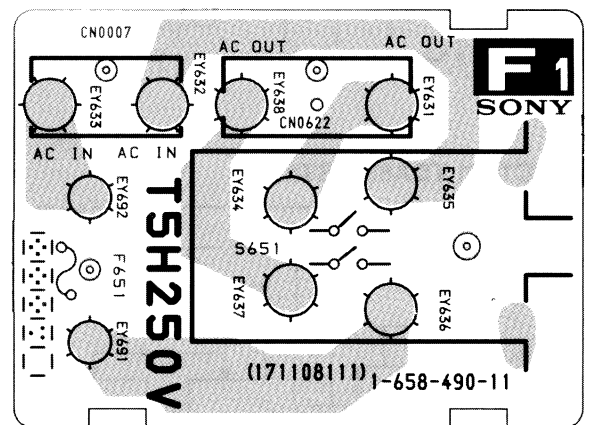
H2 Board



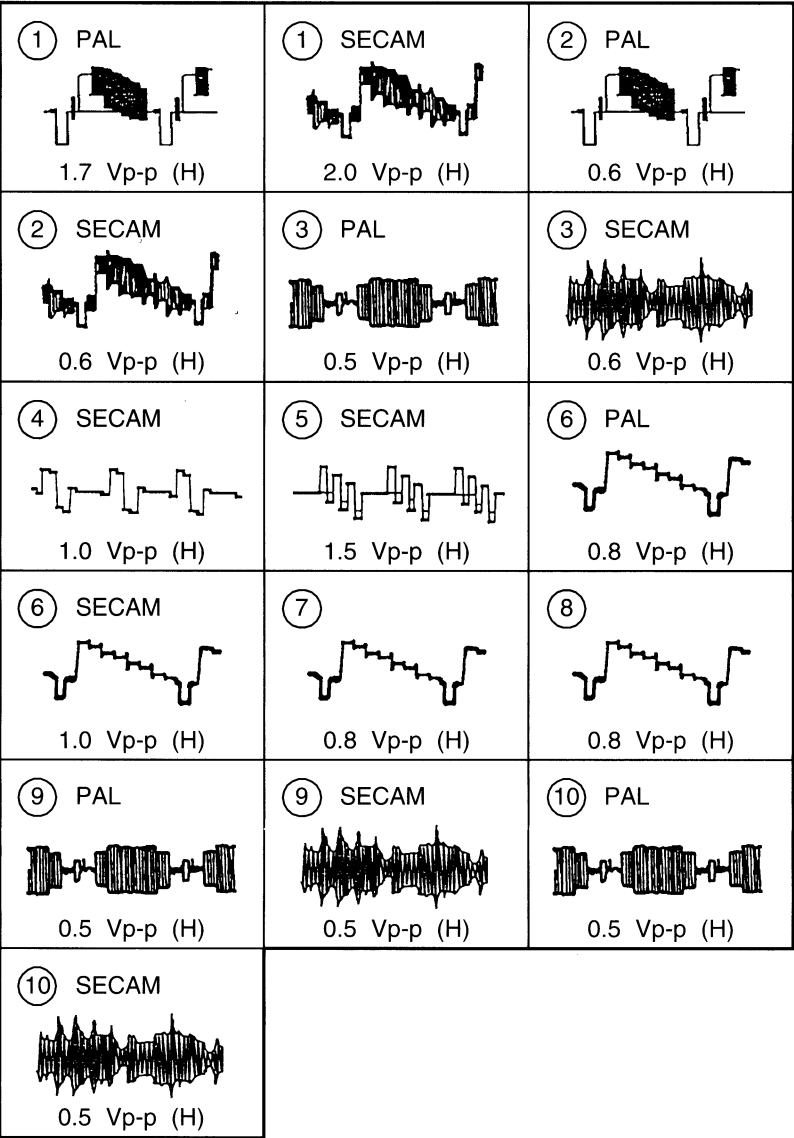
B-#SSAE3.<...>-F1.-28WS3



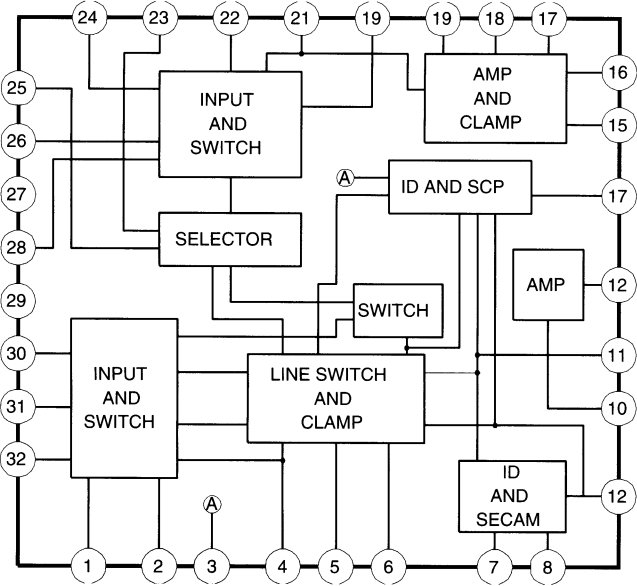
F1 Board



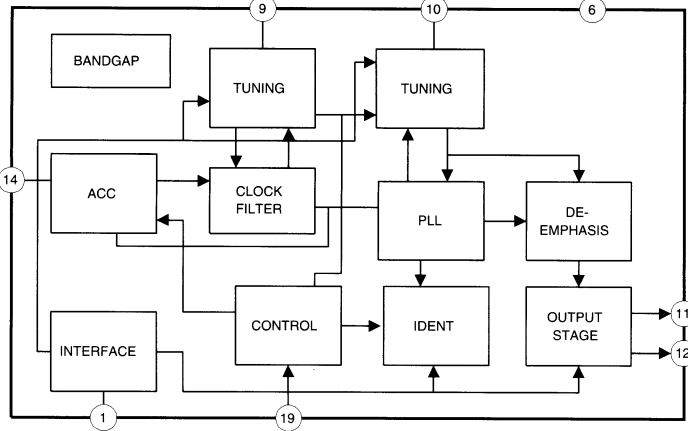
WAVEFORMS B3 BOARD



B3 Board IC1302 CXA1860Q-T4



B3 Board IC1301 TDA8395ST/N2



Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)
IC01	27	1.2	IC06	4	1.3
	28-29	1.5		10	0
	32	1.1		17	1.0
	34-35	1.9		21	1.2
	37	0.3		22	4.8
	39	1.1		42	1.3
	41	1.1	IC07	11	1.6
	42	3.0		33-35	4.8
	43-48	4.8		39	4.8
				41	4.8
IC02	6	3.1		51	1.4
	7	1.3		53	4.8
	9-10	4.2		54	1.0
	11-12	3.0		64	4.8
	13	1.6		71	0.7
	15	0.1		73	4.8
	16	1.6			
	17	1.7			
	18	1.6			
	21-22	0			
	24	3.1			
	66	3.1			
	79-82	0			
	83	3.0			
	84-87	0			
	88	0.7			
	89-91	3.0			
	92-93	0			
	132	0			
	144	3.1			
	156	1.5			
	157	3.1			
	158-159	0			
	160	0.1			
	164	3.1			
	172	3.1			
	175	1.5			
IC04	1	4.8			
	6	1.2			
	8-9	0			
	11	0			
	38	0.7			
	39	1.3			
	41	4.8			
	56	1.5			
	62	4.8			
	72	4.8			
IC05	1	4.8			
	6	1.4			
	38	1.0			
	39	1.4			
	41	4.8			
	56	1.2			
	62	4.8			
	72	4.8			

Ref.No.	Pin No.	(B) Base	(C) Collector
Q01		0.8	0
Q02/03		1.6	0
Q04		0.3	0
Q05/06		1.1	0

Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)
IC301	10-11	3.2		53	3.1		10	2.4
	12	1.1		63	3.1		11	3.0
	13-16	3.2		65-66	3.1		12-13	2.8
	18-20	3.2		67	4.2		15	2.3
	21	2.3		68	3.1		16	0.1
	24	1.7		69	4.1		17	3.0
	29	3.2		70	3.1		19-21	2.8
				72	3.1		22	3.6
				73	1.6		24	3.6
				75	0.1		26	3.6
IC302	1	3.0	IC503	31-33	1.2		27	8.8
	3	0.4		35	1.2		30	4.2
	4	3.2		37	1.9		31-32	4.0
	6	1.4		40	2.0		All Voltages are indicated in Volts DC	
	7-8	1.0		41-42	5.0			
	9	0.4		43-44	3.0			
	12	3.2		46	3.0			
	13	0.5		48	3.0			
	21	2.4		50	0.6			
	22-23	3.2		52-53	4.8			
	24	0.1	IC1505	54	0.6			
	25	2.2		56	4.8			
	27	0.1		58	0.6			
	28-29	4.2		60-61	4.8			
	30	3.0		62	1.4			
	31-35	1.2						
	39	4.8		2	1.2			
	40	2.6		4	1.2			
	43	4.8		6	1.2			
	45	3.1		14	1.5			
IC502	46	3.1	IC1506	16	1.5			
	47-48	1.6		18	1.5			
	49	1.2		20	4.8			
	51	1.2						
	53	3.2		2	1.0			
	60	3.1		4	1.0			
	93	3.1		6	1.0			
				8	1.0			
				12	1.3			
				14	1.4			
				16	1.4			
			IC1301	18	1.4			
				20	4.8			
				1	4.4			
				5	8.0			
				9	3.2			
IC1302	23-25	1.6		10	4.2			
	26	1.7	IC1302	11-12	2.9			
	27	3.1		19	0.5			
	28	0.3		20	7.0			
	29	1.1		4	2.8			
	30	1.6		5-6	4.2			
	31	1.2		7	2.2			
	32-33	1.5		8	0.1			
	34-35	1.3		9	0.2			

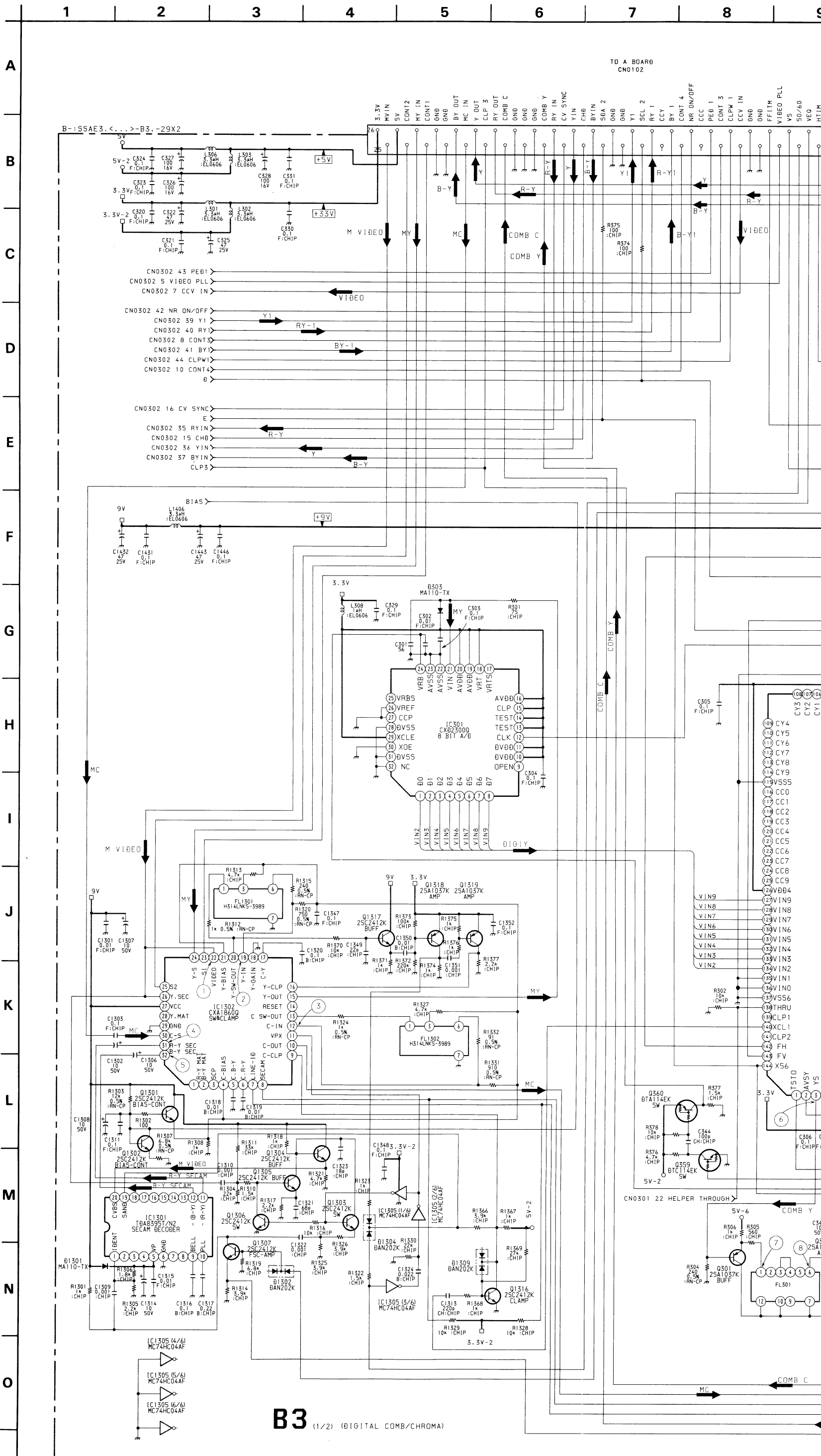
Ref.No.	Pin No.	(B) Base	(C) Collector
Q301		0.4	0
Q302		1.0	0
Q303		1.0	0
Q304		0.5	0
Q305		1.0	0
Q306		2.1	6.1
Q307		6.2	8.8
Q308		6.2	8.8
Q309		2.1	6.2
Q501/502/503		0.6	0
Q504		1.9	0
Q507		1.2	0
Q508		1.3	0
Q509		1.2	0
Q1301		3.4	8.8
Q1302		3.4	3.4
Q1303		0	7.5
Q1304		7.5	8.8
Q1307		0	8.7
Q1316		0.6	0.3
Q1318		3.2	0.2
Q1319		3.2	0.1

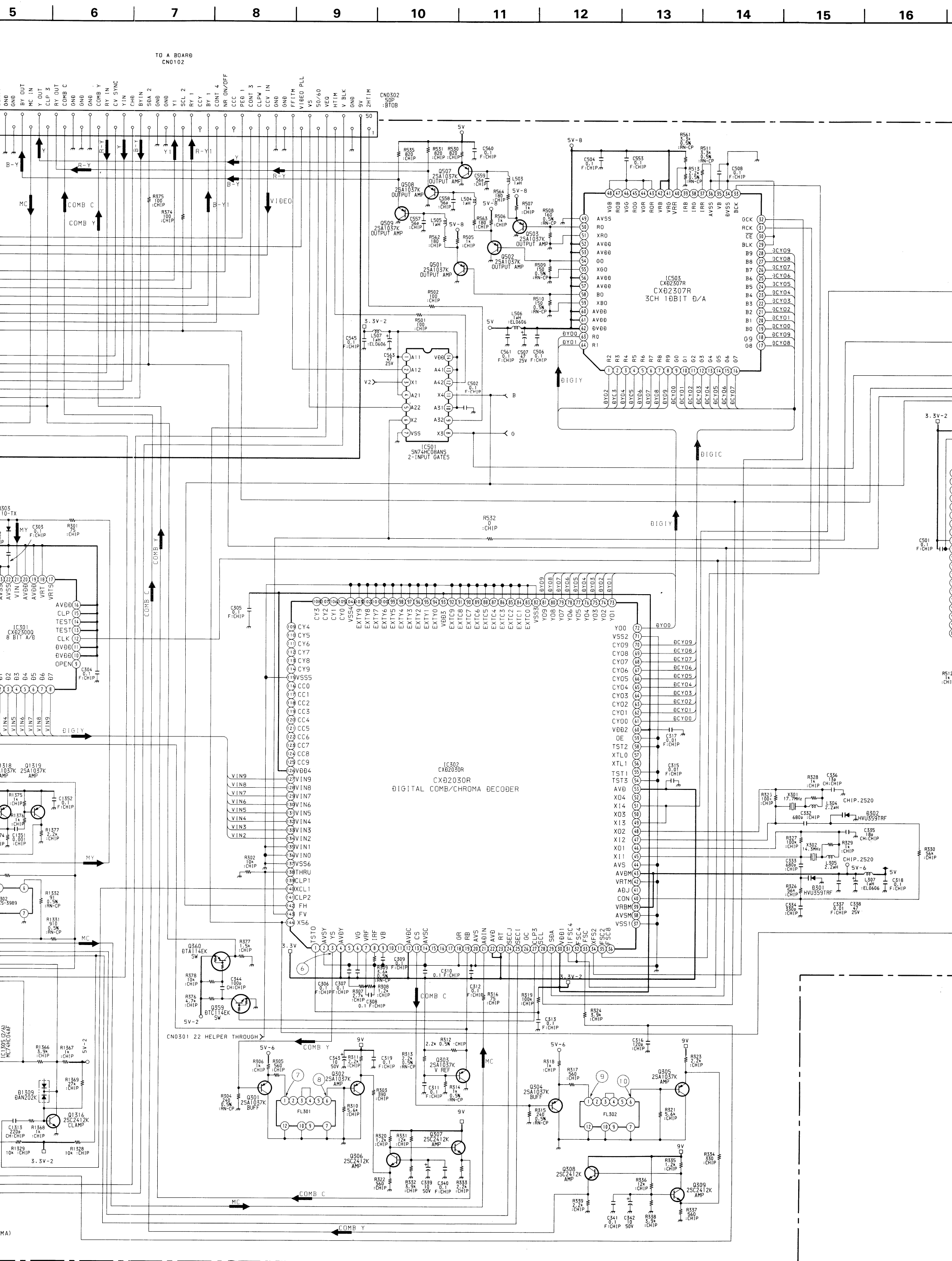
Pin No.	(B) Base	(C) Collector	(E) Emitter
Q01	0.8	0	1.5
Q02/03	1.6	0	2.2
Q04	0.3	0	0.9
Q05/06	1.1	0	1.9

Pin No.	Voltage (V)
10	2.4
11	3.0
12-13	2.8
15	2.3
16	0.1
17	3.0
19-21	2.8
22	3.6
24	3.6
26	3.6
27	8.8
30	4.2
31-32	4.0

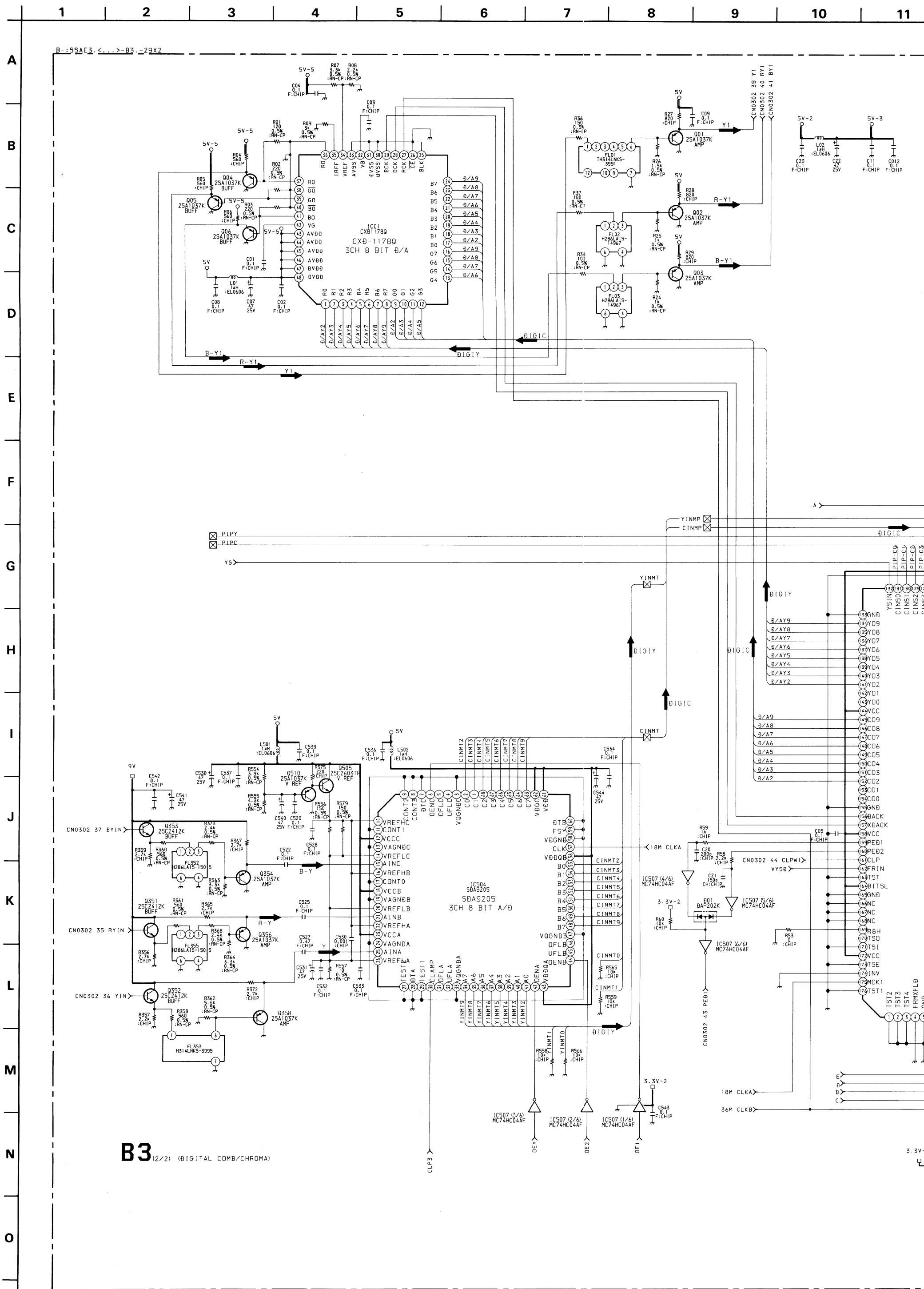
as indicated in Volts DC

Pin No.	(B) Base	(C) Collector	(E) Emitter
Q301	0.4	0	1.1
Q302	1.0	0	1.6
Q303	1.0	0	1.6
Q304	0.5	0	1.2
Q305	1.0	0	1.7
Q306	2.1	6.1	1.4
Q307	6.2	8.8	5.6
Q308	6.2	8.8	5.6
Q309	2.1	6.2	1.5
Q501/502/503	0.6	0	1.3
Q504	1.9	0	1.9
Q507	1.2	0	1.9
Q508	1.3	0	1.9
Q509	1.2	0	1.9
Q1301	3.4	8.8	2.8
Q1302	3.4	3.4	2.9
Q1303	0	7.5	0
Q1304	7.5	8.8	6.9
Q1307	0	8.7	0.8
Q1316	0.6	0.3	0
Q1318	3.2	0.2	3.2
Q1319	3.2	0.1	3.2





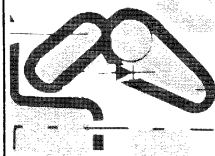




IC		Q358	D-5
IC01	I-6	Q359	C-6
IC02	H-8	Q360	C-5
IC04	J-8	Q501	J-2
IC05	F-7	Q502	J-2
IC06	I-8	Q503	J-2
IC301	H-1	Q504	A-5
IC302	G-1	Q505	D-6
IC501	C-2	Q506	A-5
IC502	F-3	Q507	E-6
IC503	I-3	Q508	E-6
IC504	H-4	Q509	E-6
IC505	A-7	Q510	I-3
IC506	G-4	Q1301	D-8
IC507	B-2	Q1302	D-8
IC509	C-13	Q1303	D-7
IC1301	I-1	Q1304	D-8
IC1302	H-2	Q1305	D-8
IC1305	I-1	Q1306	D-8
TRANSISTOR		Q1307	D-7
		Q1316	I-2
		Q1317	C-7
Q01	E-2	Q1318	I-2
Q02	J-7	Q1319	H-1
Q03	E-1	DIODE	
Q04	I-7	D01	F-7
Q05	I-7	D301	B-7
Q06	I-7	D302	B-7
Q301	B-8	D303	C-8
Q302	B-8	D1301	D-8
Q303	B-7	D1302	D-7
Q304	H-1	D1304	I-2
Q305	H-1	D1309	J-1
Q306	G-1		
Q307	B-8		
Q308	C-6		
Q309	C-7		
Q351	E-5		
Q352	D-5		
Q353	E-5		
Q354	D-6		
Q356	D-5		

D

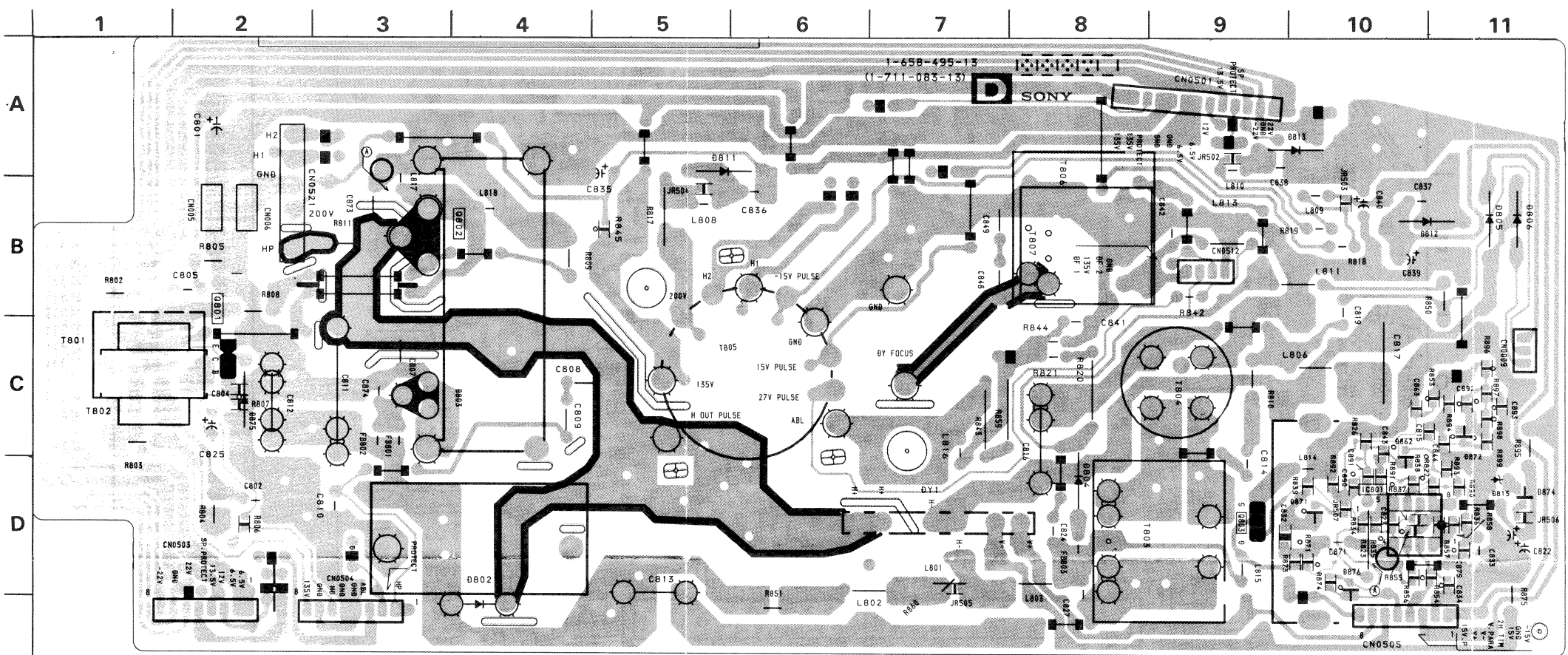
[H OUT, PIN CORRECT]



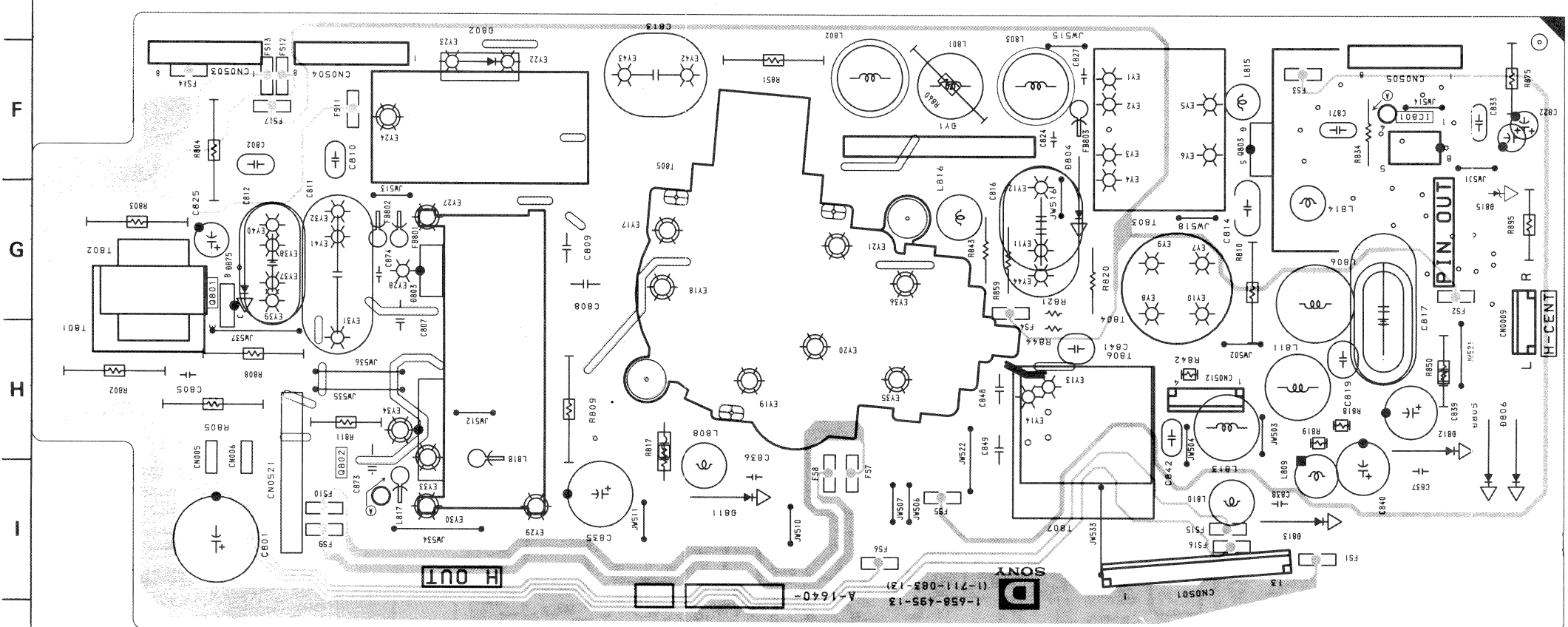
NOTE:

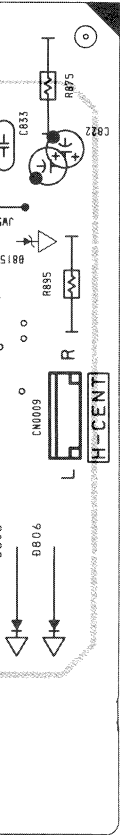
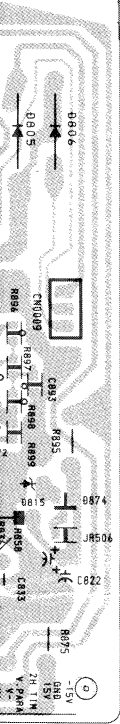
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

D Board <Conductor Side>



D Board <Component Side>

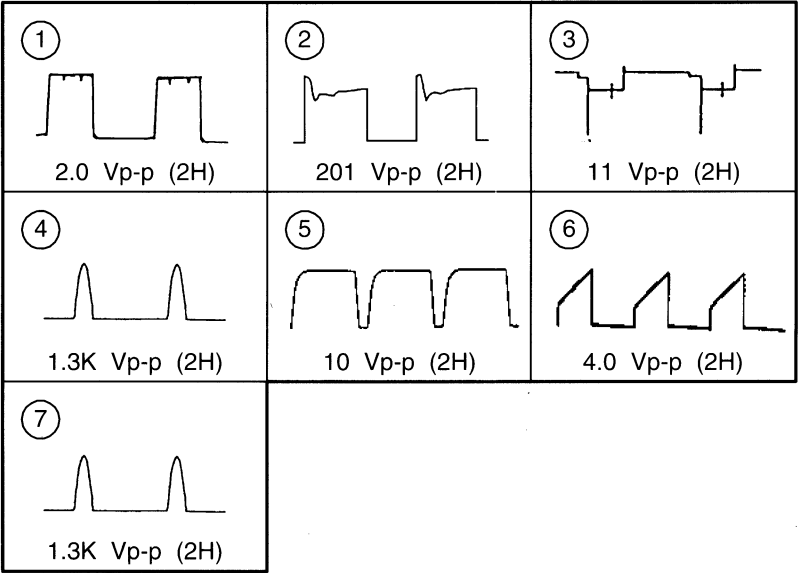




D BOARD

IC	
IC801	D-10
TRANSISTOR	
Q801	C-2
Q802	B-4
Q803	D-9
DIODE	
D802	E-4
D803	C-4
D804	D-8
D805	B-11
D806	B-11
D811	A-5
D812	B-11
D813	A-10
D815	D-11
D872	D-11
D874	D-11

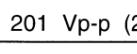
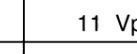
WAVEFORMS D BOARD



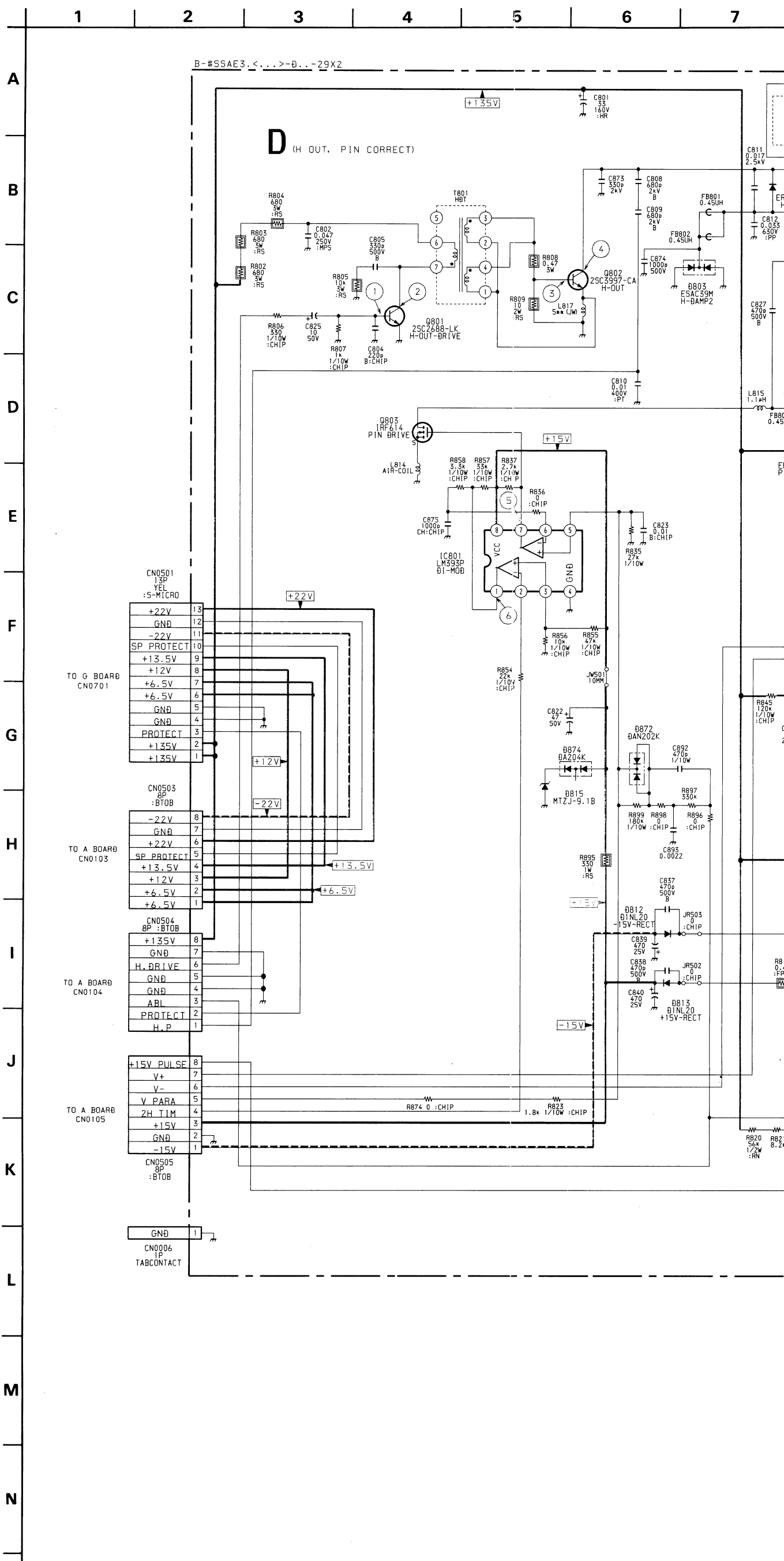
Ref.No.	Pin No.	Voltage (V)
IC801	1	1.2
	2	1.8
	3	1.6
	5	2.6
	6	1.2
	7	7.5
	8	9.5

Pin No.	(B) Base	(C) Collector	(E) Emitter
Ref.No.			
Q801	-0.5	109	0
Q803	7.5	23.5	0

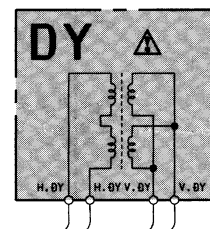
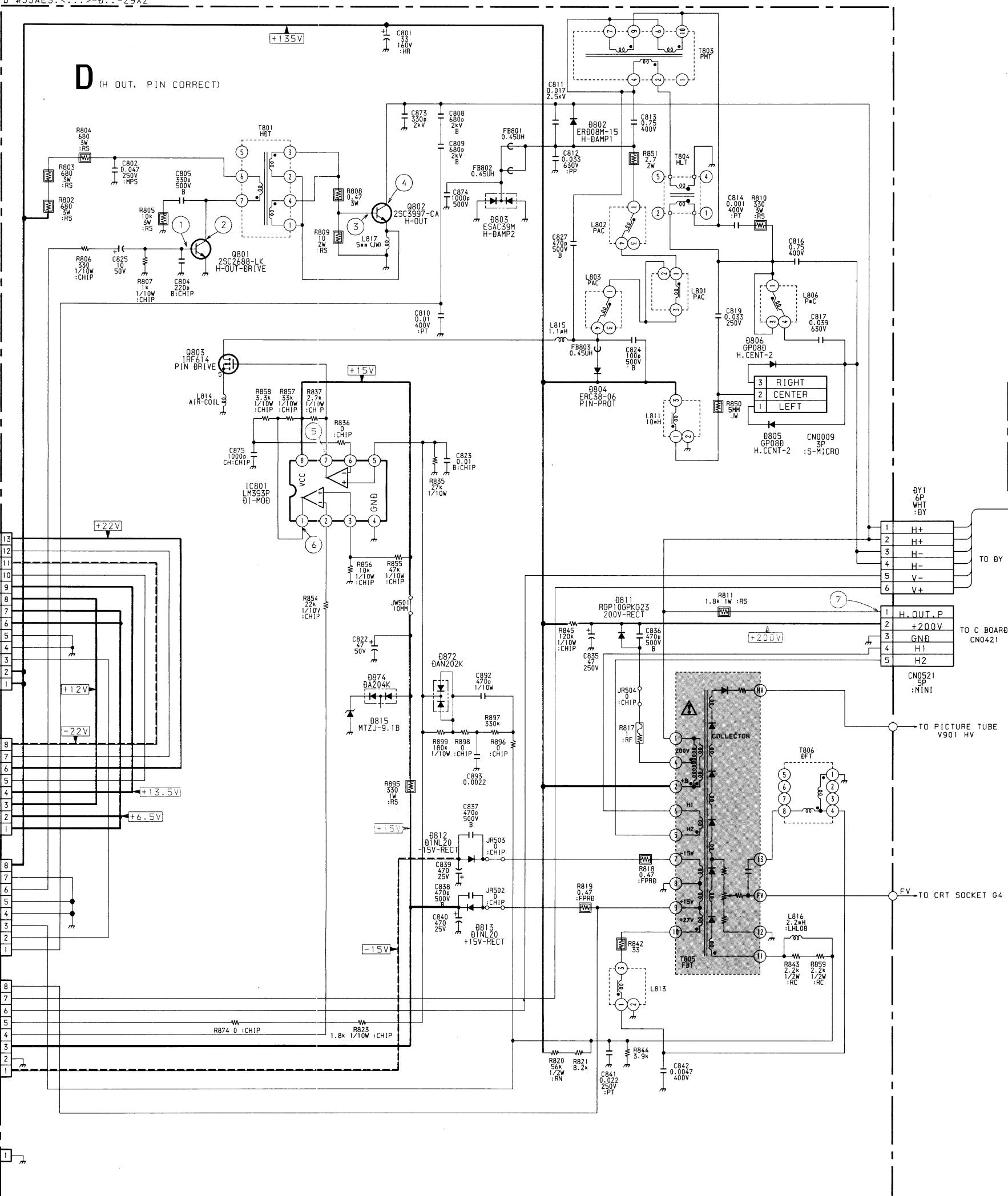
A
B
C
D
E
F
G
H
I
J
K
L
M
N

<p>②</p>  <p>201 Vp-p (2H)</p>	<p>③</p>  <p>11 Vp-p (2H)</p>
<p>⑤</p>  <p>10 Vp-p (2H)</p>	<p>⑥</p>  <p>4.0 Vp-p (2H)</p>

(C) lector	(E) Emitter
09	0
3.5	0



B-#SSAE3.<...>-0..-29X2

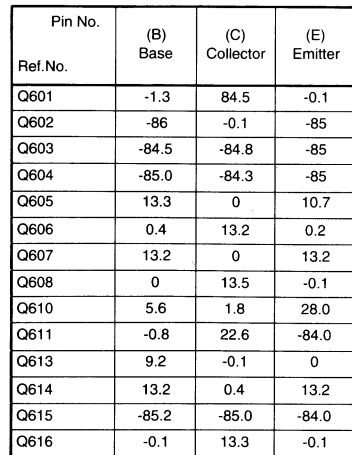


TO DY

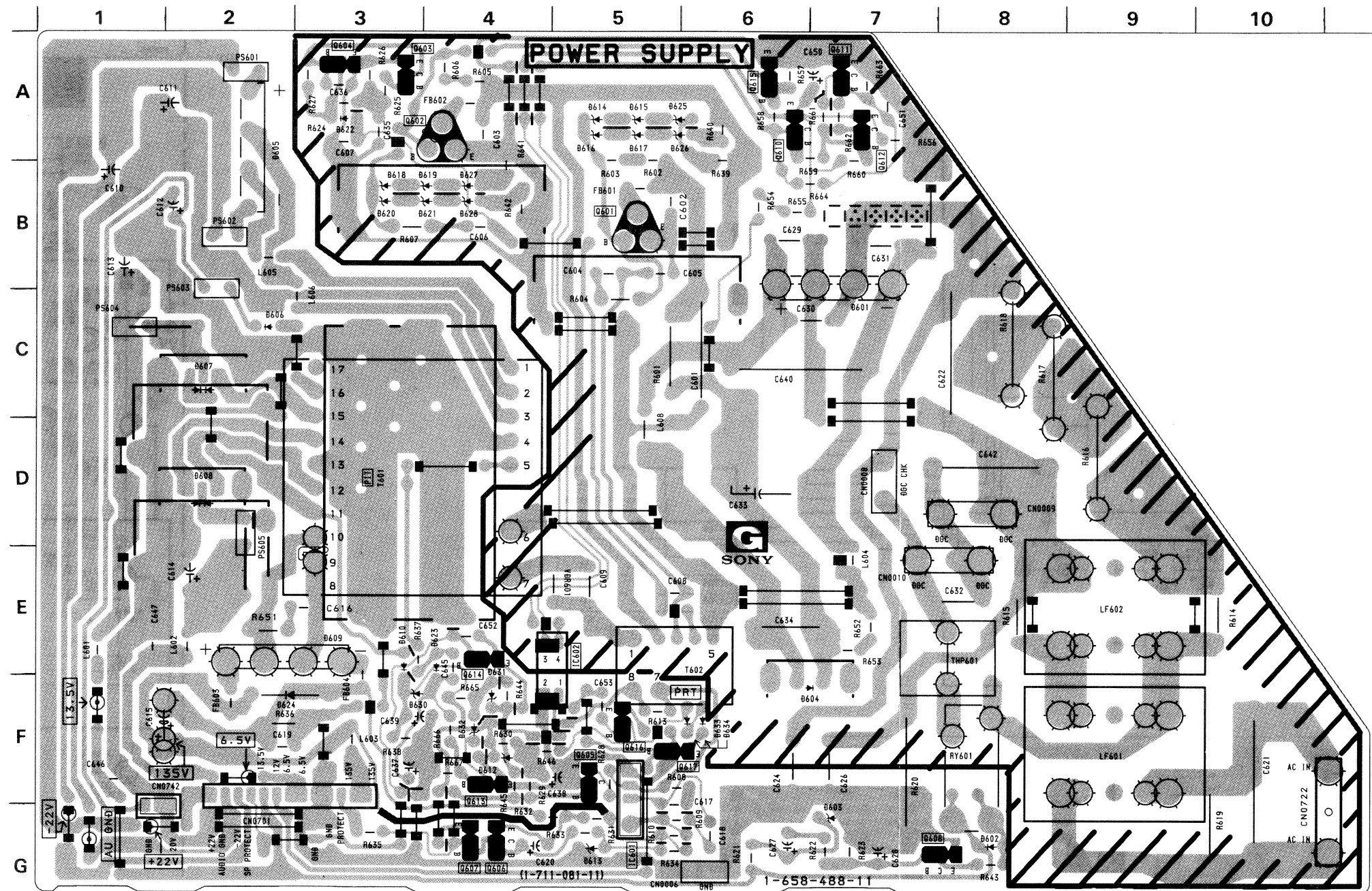
TO C BOARD
CNO/BA

TURE TUBE
0.1 UV

SOCKET G4

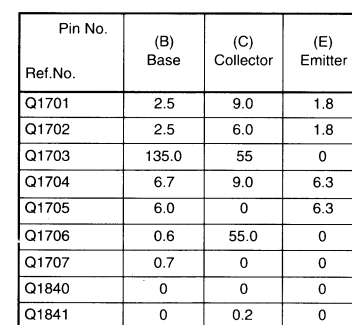


G Board



G BOARD

IC	
IC601	G-5
IC602	E-5
TRANSISTOR	
Q601	B-5
Q602	A-3
Q603	A-3
Q604	A-3
Q605	F-5
Q606	G-4
Q607	G-4
Q608	G-7
Q610	A-6
Q611	A-7
Q612	A-7
Q613	F-4
Q614	E-4
Q615	A-6
Q616	F-5
Q617	F-6
DIODE	
D601	C-7
D602	G-8
D603	F-7
D605	A-2
D607	C-2
D608	D-2
D609	E-3
D610	E-3
D612	F-4
D613	G-5
D614	A-5
D615	A-5
D616	A-5
D617	A-5
D618	B-3
D619	B-4
D620	B-3
D621	B-4
D622	A-3
D623	E-4
D624	F-2
D625	A-5
D626	A-5
D627	B-4
D628	B-4
D630	F-3
D631	E-4
D632	F-4
D633	F-6
D634	F-6



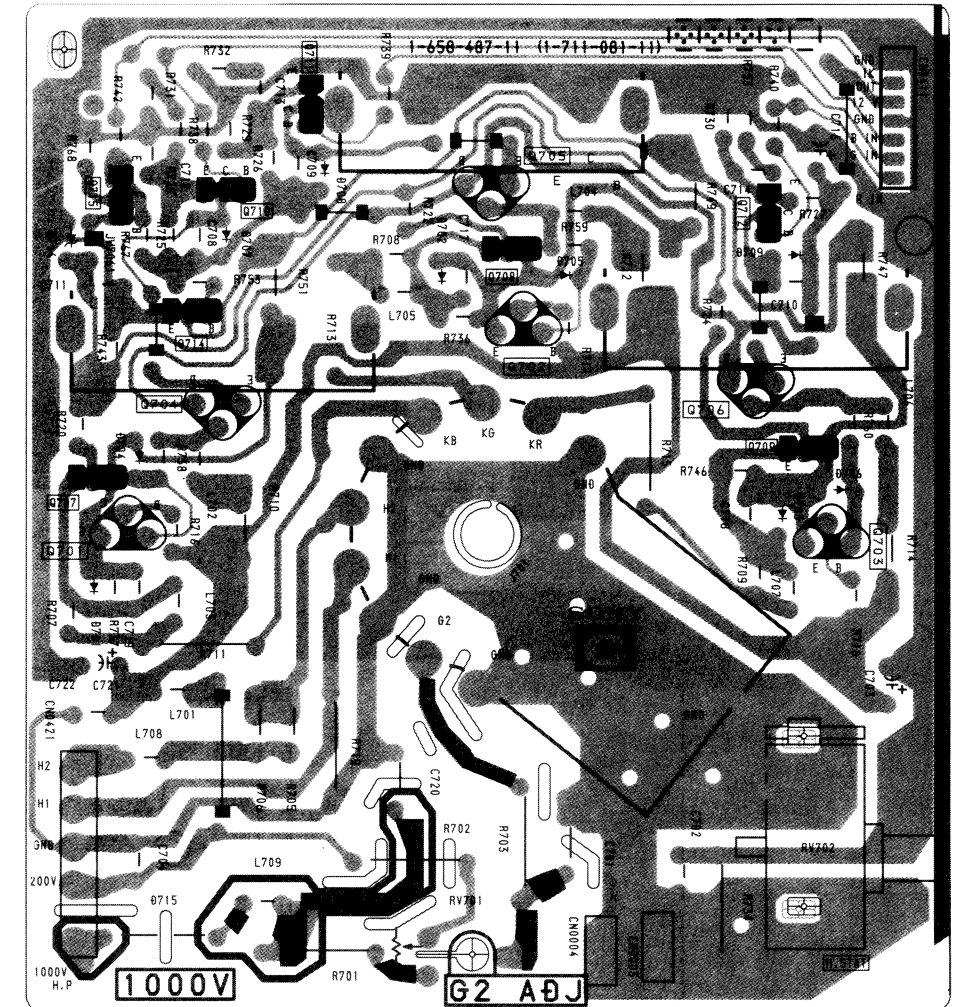
V.M.
SONY

(1-711-081-11)

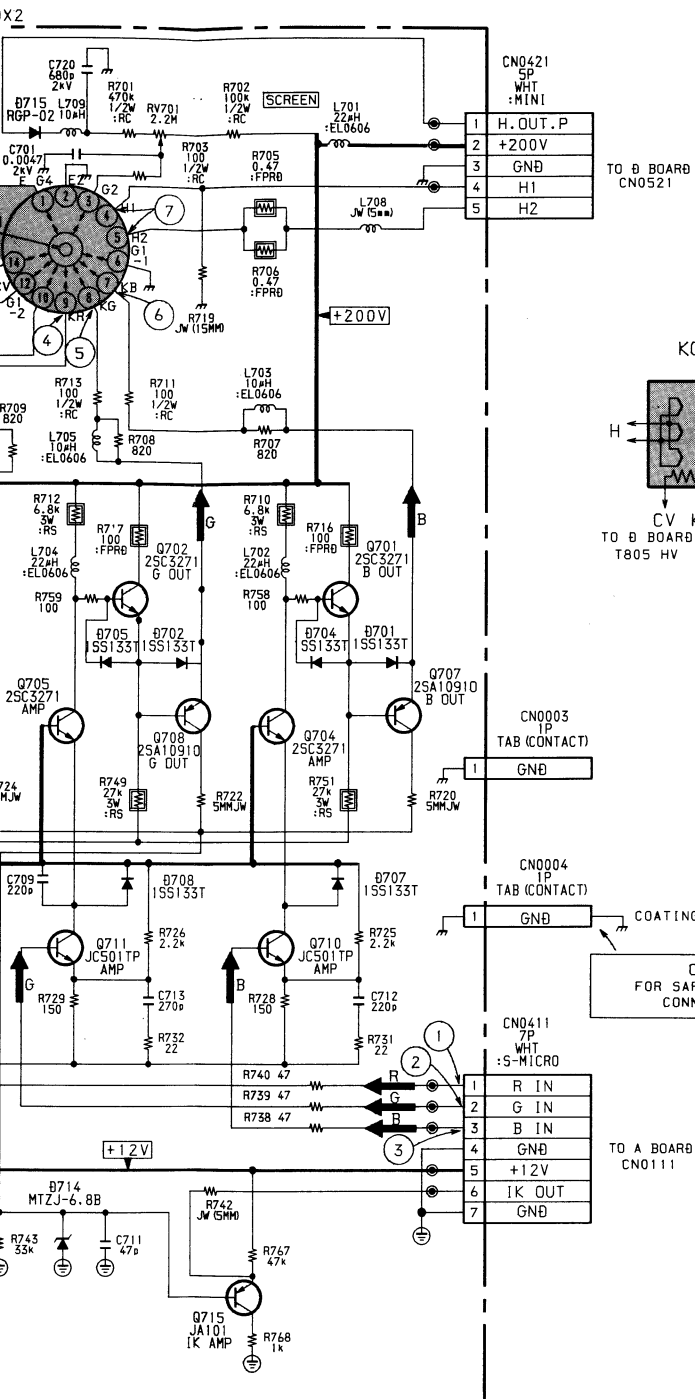
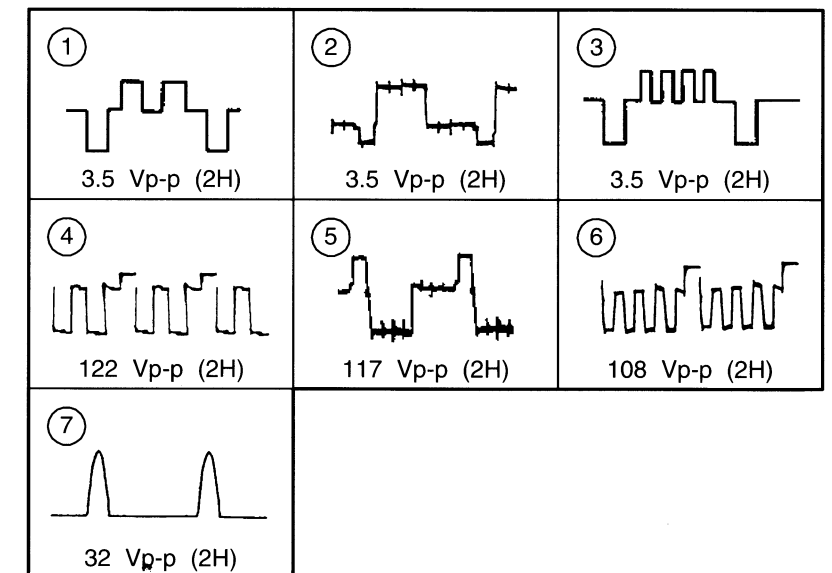


C [RGB OUT]

C Board

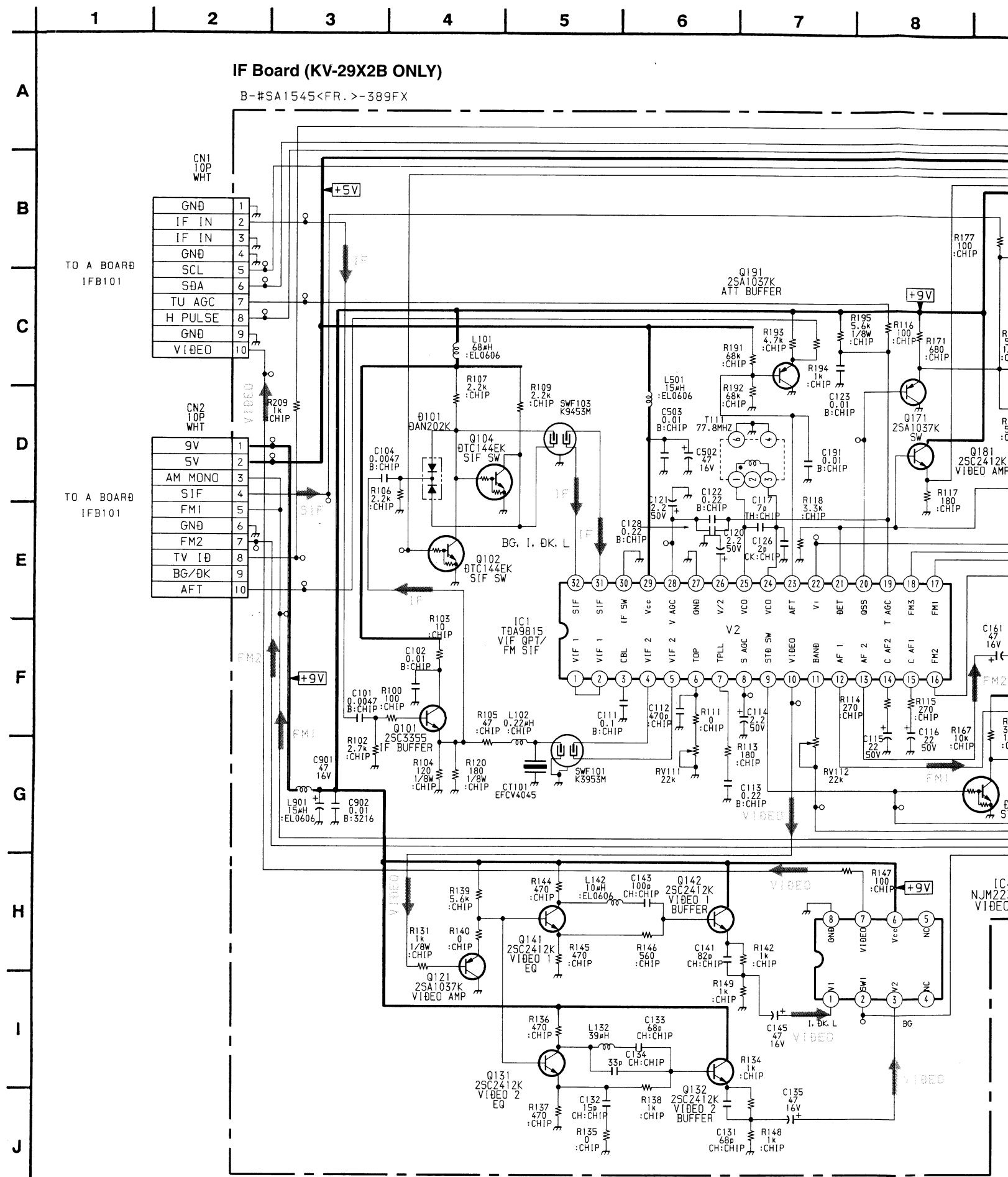
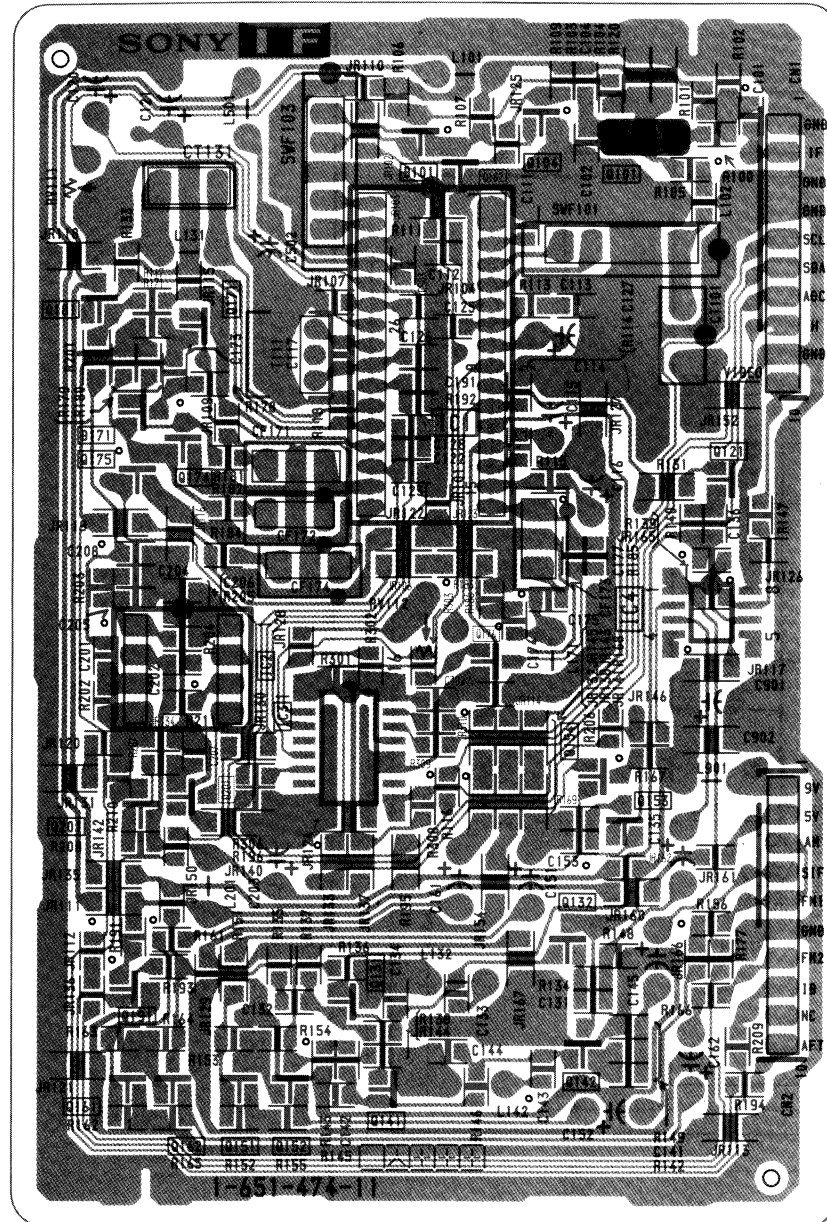


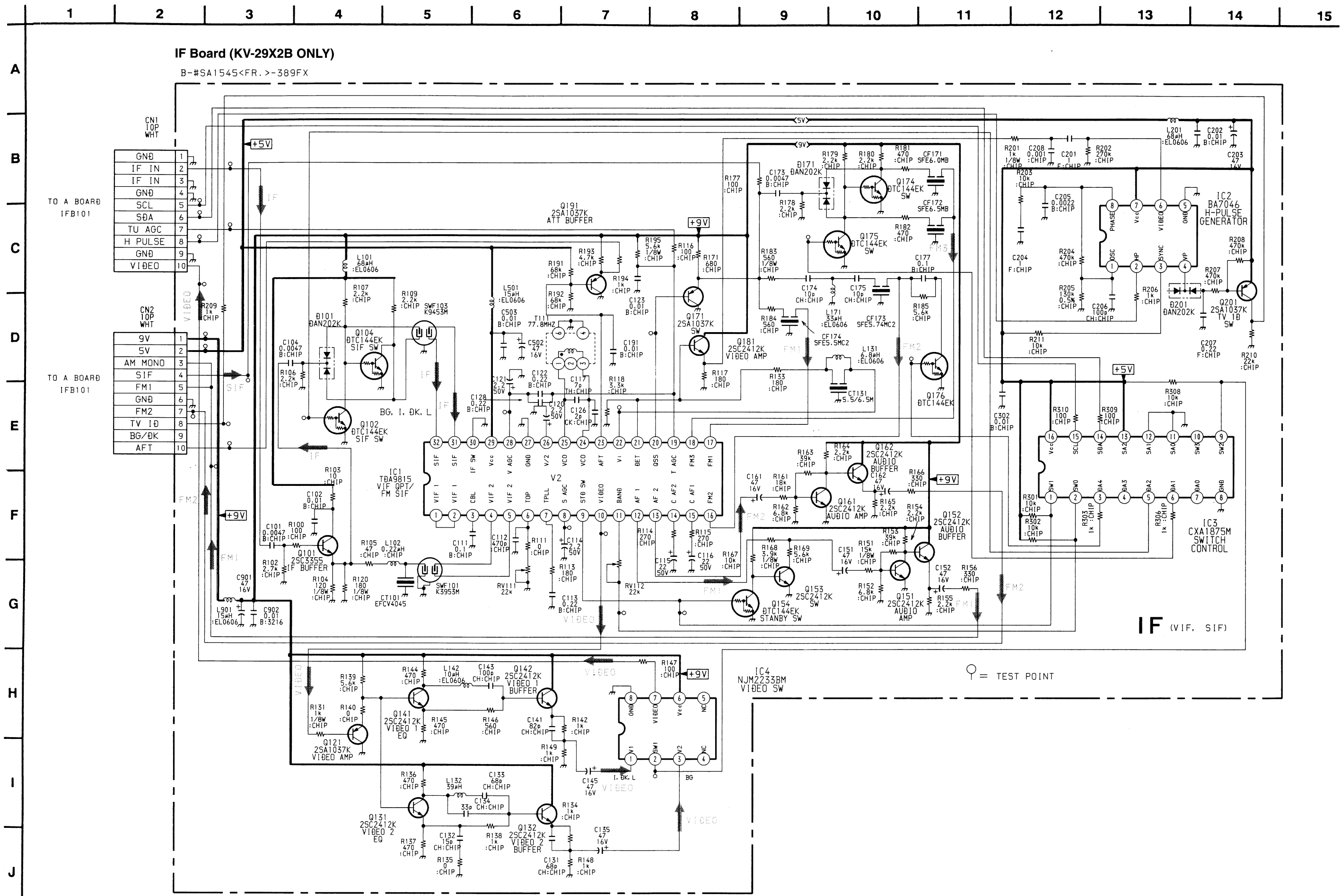
WAVEFORMS C BOARD



Pin No.	(B) Base	(C) Collector	(E) Emitter
Ref.No.			
Q701	155	204	159
Q702	146	204	151
Q703	156	203	156
Q704	12.0	155	11.5
Q705	12.0	144	11.5
Q706	12.0	151	11.5
Q707	158	5.5	176
Q708	151	5.3	173
Q709	156	5.5	168
Q710	2.1	11.4	1.7
Q711	2.2	11.4	1.8
Q712	2.1	11.4	1.7
Q714	0.7	0.1	0
Q715	5.5	0.1	3.2

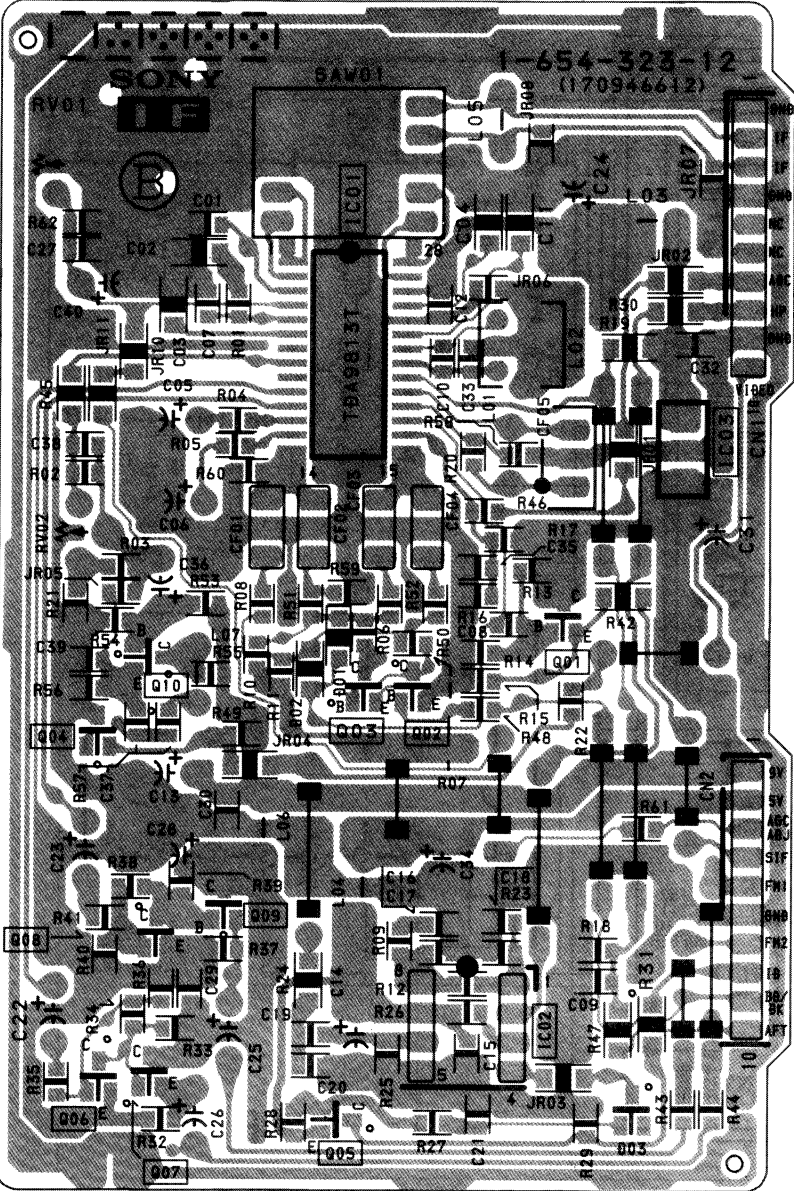
IFH-389FX (KV-29X2B ONLY)





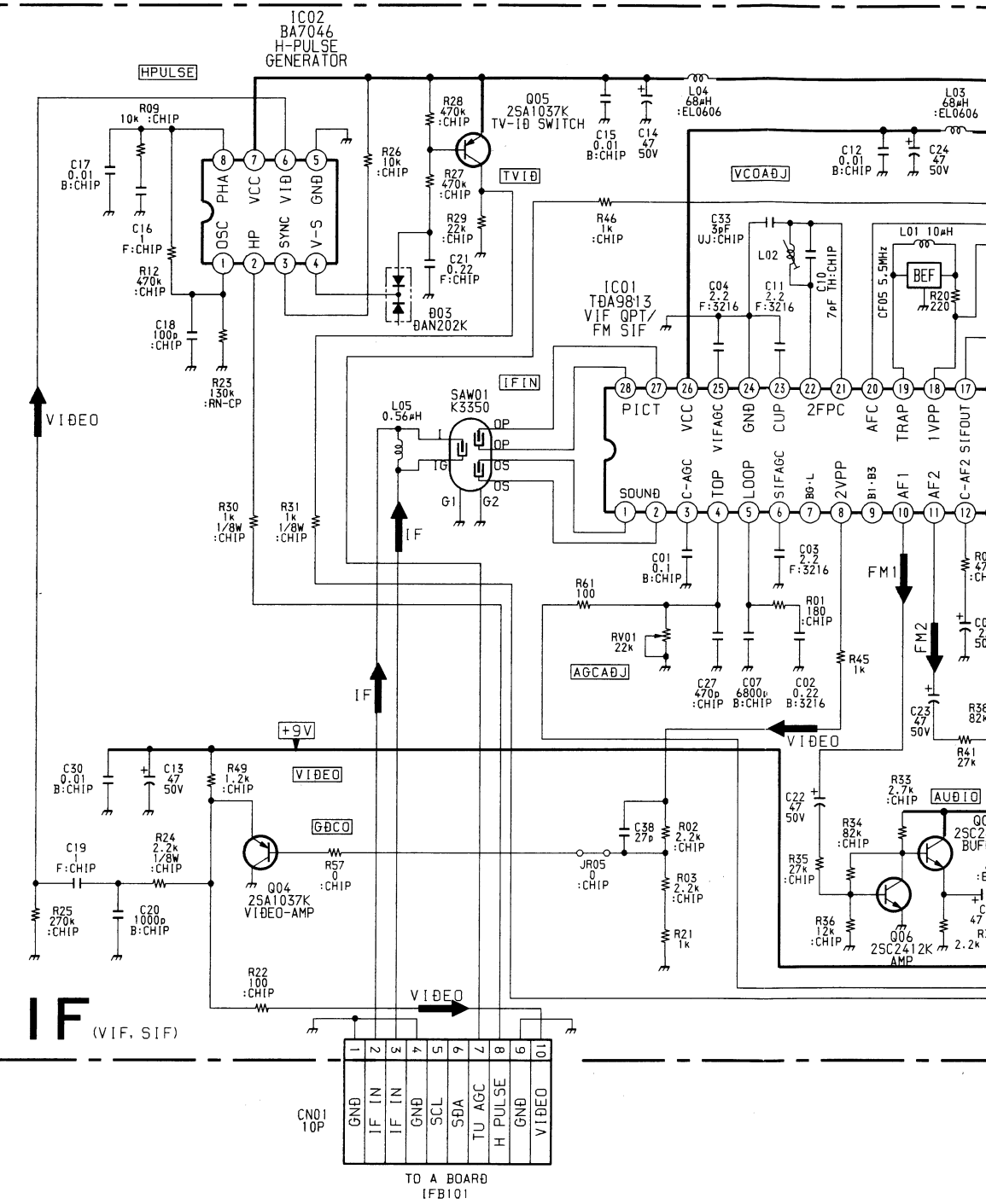
IF [VIF, SIF]

IFH-389WE (KV-29X2A, 29X2D and 29X2E ONLY)



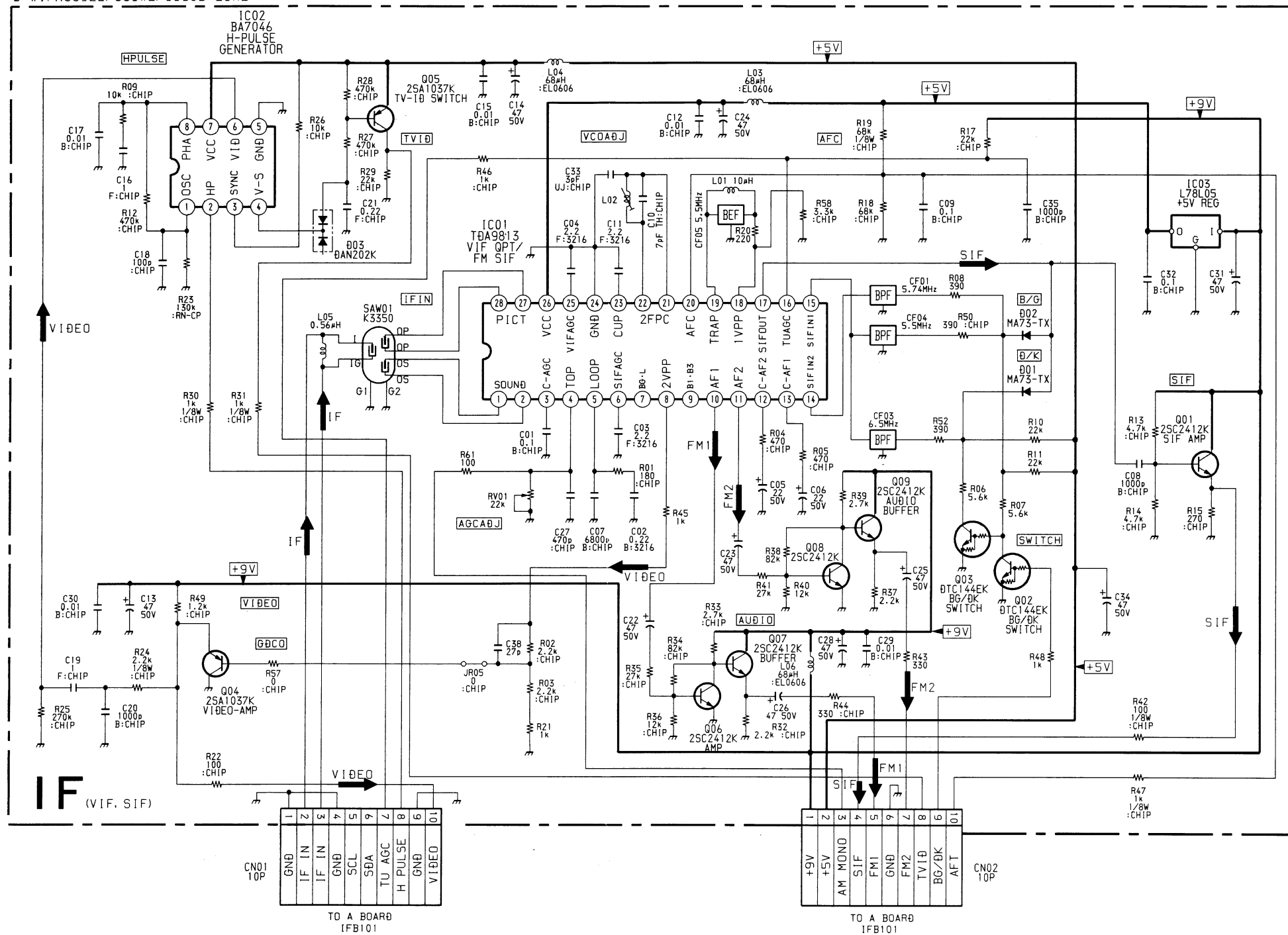
IF Board (KV-29X2A,29X2D and 29X2E ONLY)

B-#1FH389EE/389WE/395GB-29X2

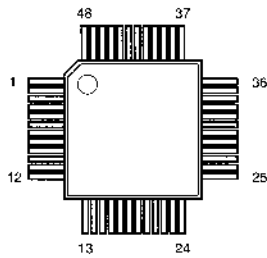


IF Board (KV-29X2A,29X2D and 29X2E ONLY)

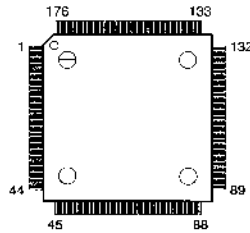
B-#1FH389EE/389WE/395GB-29X2



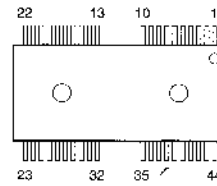
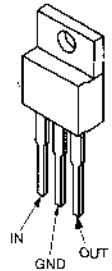
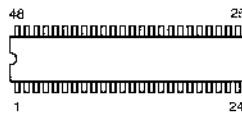
5-4. SEMICONDUCTORS

CXA1839Q-T6
CXD1178Q

CXD2035R

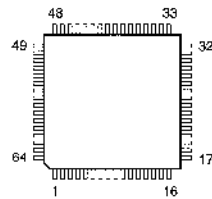


MB81C1501PFTN-G-D-ER

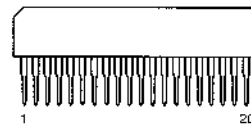
PQ09RE11
TEA7605CXA1840S
CXA1855S

(TOP VIEW)

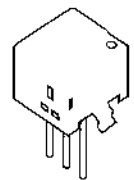
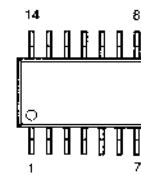
CXD2307R



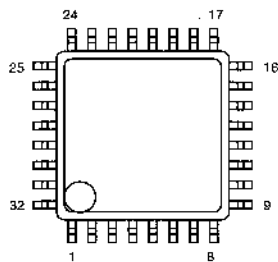
MB81C4256A-70PSZG



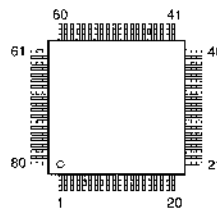
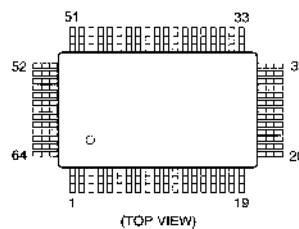
SBX1810-11

MC74HC04AF
SN74HC08ANS

(TOP VIEW)

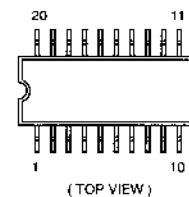
CXA1860Q-T4
CXD2300Q-T4

CXK48324R-1

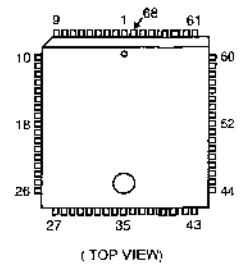
CXP85112B-646Q-TL
SAA7283GP

(TOP VIEW)

MC74F244M

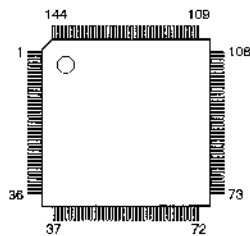


(TOP VIEW)

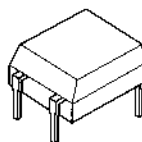
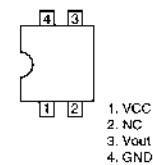
SDA30C164-2GEG
SDA5273P-C26-GEG
SDA9205-2GEG

(TOP VIEW)

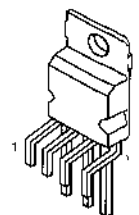
CXD2030R



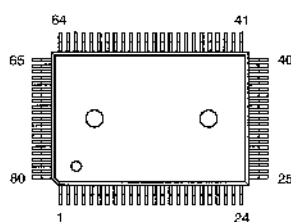
DM-48

PC123F2
PC123FY21. VCC
2. NC
3. Vout
4. GND

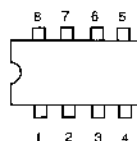
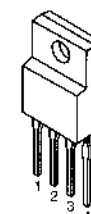
STV9379



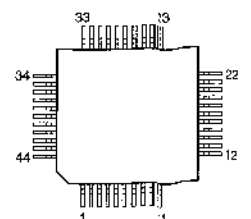
CXD2032Q-TL



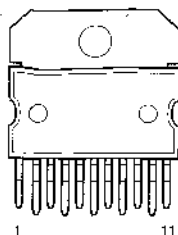
(MARKING SIDE VIEW)

LM393P
M5216P
SDA9086-5
ST24C16CB1TDA2822M
TEA2114
μPC393CPQ05RF21
PQ12RF211 : V IN
2 : V OUT
3 : GND
4 : ON/OFF CONTROL

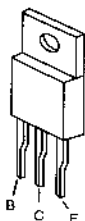
TDA6812-2NGEG



TDA7265



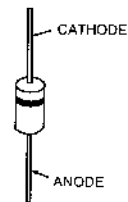
IRF614



2SC4793



D1NL20 RGP10G
EL1Z R2K-V1
GP08D S2LA20F
RGP02-20EL-6394



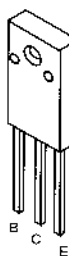
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JA101 2SA1837
JC501 2SA733-K
2SA1091-O 2SC2500-B
2SA1207 2SC2551-O

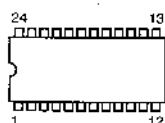


2SC4834NP-F09



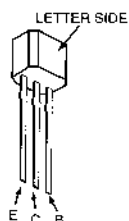
ERC38-06 RD5.6ESB2
MTZJ-3.6A RD6.8ESB2
MTZJ-5.6B RD9.1ESB2
MTZJ-6.8B
MTZJ-T-77-9.1
MTZJ-T-77-9.1A
MTZJ-9.1B
MTZJ-15B RD15ES-B2
MTZJ-33C 1SS119-25
MTZJ-39 1SS133T-77
RD39ESB2

TDA8443B

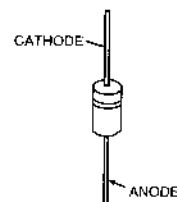


(TOP VIEW)

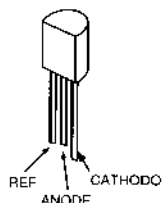
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2SC2785-HFE



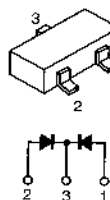
2SD2396H



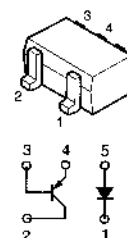
TL431CLP



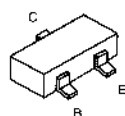
DAN202K



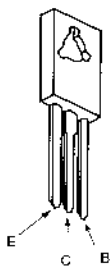
D10SC4M



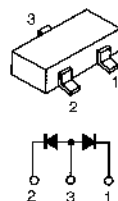
DTA114EK 2SC2412K
DTC114EK 2SC2412K-QR
DTC124EKA-T146
DTC144EKA-T146
2SA1037K
2SA1162-G



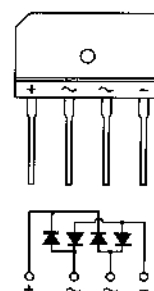
2SC2611
2SC2688-LK
2SC3271-N



DAP202K



D4SB60L
RBA-402L



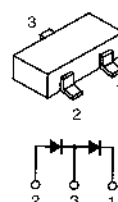
DTA144ESA
DTC144ESA-TP



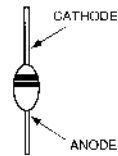
2SC3997CA



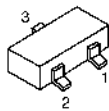
DA204K



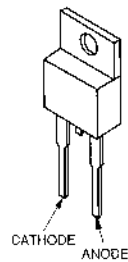
ERC38-06



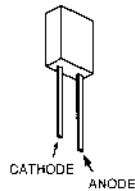
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MA3051M-TX
MA3091
RD5.1M-B2
RD5.6M-B2



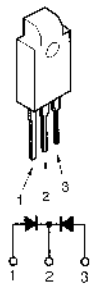
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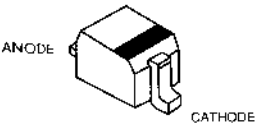
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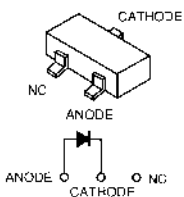
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ESAD39M-06C



HVU359TRF
MA110
1SV214



MA3030H (TX)



SECTION 6

EXPLODED VIEWS

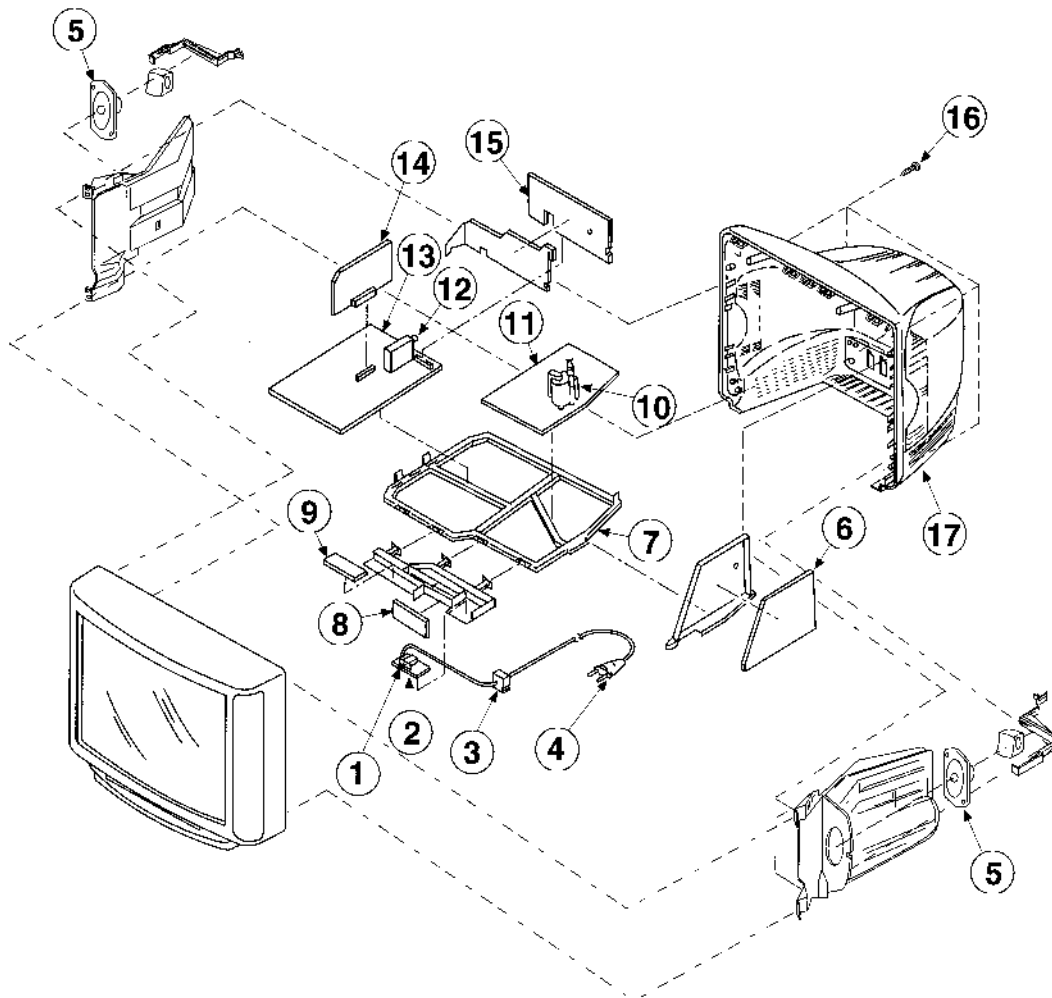
NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked ! are critical for safety.
Replace only with the part number specified.

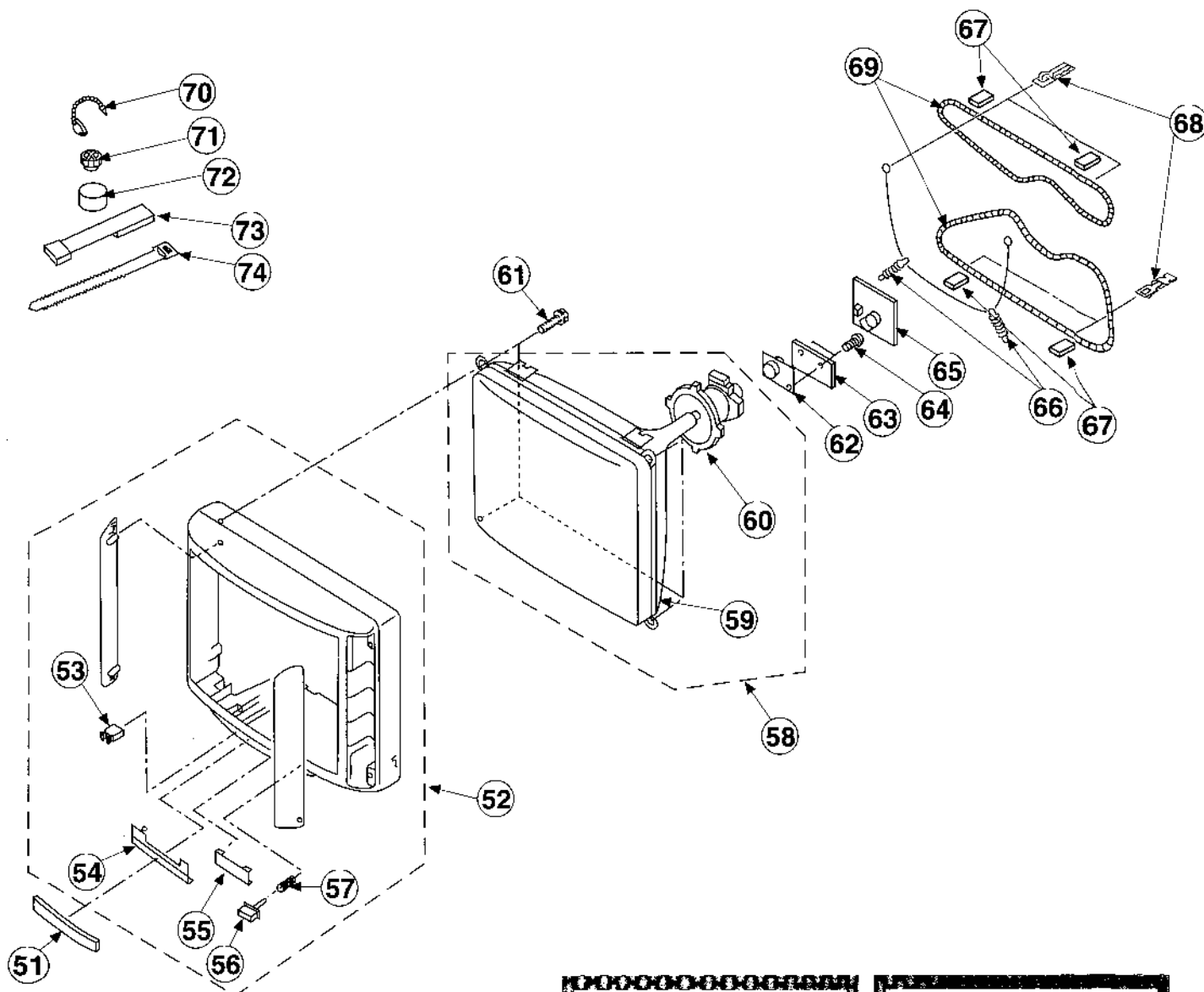
Les composants identifiés par une trame et une marque ! sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CHASSIS



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	1-971-438-21	SWITCH, PUSH (AC POWER)		11	*A-1640-236-A	D BOARD, COMPLETE	
2	*A-1624-052-A	F1 BOARD, COMPLETE		12	8-598-361-00	TUNER (BTP-AC402)	
3	*4-202-531-01	AC CORD LOCK (3C)		13	*A-1632-462-A	A BOARD, COMPLETE (KV-29X2A/29X2D)	
4	1-751-688-11	COND. POWER (WITH NOISE FILTER)			*A-1632-461-A	A BOARD, COMPLETE (KV-29X2B)	
5		2.5A/250V			*A-1632-460-A	A BOARD, COMPLETE (KV-29X2E)	
6	1-504-507-11	SPEAKER (5CM)		14	*A-1620-073-A	B3 BOARD, COMPLETE	
7	*A-1636-009-A	G BOARD, COMPLETE		15	*A-1651-080-A	J BOARD, COMPLETE	
8	*4-050-452-01	BRACKET, MAIN		16	4-039-358-01	SCREW (4x16), (+) BV TAPPING	
9	*A-1646-099-A	H2 BOARD, COMPLETE		17	X-4032-754-3	COVER ASSY, REAR	
10	*A-1646-098-A	H1 BOARD, COMPLETE					
11	1-458-187-11	TRANSFORMER ASSY. FLYBACK	(NZ2661/U2E)				

6-2. PICTURE TUBE



The components identified by shading and marked ! are critical for safety. Replace only with the part number specified.

Les composants identifiés par une trame et une marque ! sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	4-202-644-41	ORNAMENT DOOR		65	*A-1638-070-A	C BOARD, COMPLETE	
52	X-4031-666-7	BEZNET ASSY	53-57	66	4-200-433-01	SPRING, TENSION	
53	4-392-036-01	CATCHER, PUSH		67	*4-203-390-01	CUSHION, DGC	
54	4-202-642-01	DOOR		68	4-202-415-01	CLIP, DGC (29")	
55	4-202-643-01	WINDOW ORNAMENTAL		69	*A-1638-070-A	C BOARD, COMPLETE	
56	4-202-637-01	BUTTON POWER		70	4-308-870-00	CLIP, LEAD WIRE	
57	4-329-112-51	SPRING		71	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
58	4-202-644-01	PICTURE TUBE (SD-269) (1684-150)		72	1-452-032-00	MAGNET, DISK; 10MM Ø	
59	4-202-644-01	PICTURE TUBE (SD-269) (1684-150)		73	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
60	4-202-644-01	PICTURE TUBE (SD-269) (1684-150)		74	3-701-007-00	BAND, BINDING	
61	4-036-188-01	SCREW (M), PT					
62	*A-1638-070-A	C BOARD, COMPLETE					
63	*A-1644-064-A	VM BOARD, COMPLETE					
64	4-039-357-01	SCREW (3x8), (+) BV TAPPING					

SECTION 7

ELECTRICAL PARTS LIST

When indicating parts by reference number, please include the board name.

CAPACITORS

MF : mF, PF : mmF

COILS

MMH : mH, μ H : mH

B3

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

The components identified by shading and marked * are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque * sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
*A-1620-073-A B3 BOARD, COMPLETE *****				C321	1-163-038-00	CERAMIC CHIP 0.1MF	25V
< CAPACITOR >				C322	1-104-664-11	ELECT 47MF	20% 25V
C01	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C323	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C02	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C324	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C03	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C325	1-104-664-11	ELECT 47MF	20% 25V
C04	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C326	1-126-933-11	ELECT 100MF	20% 16V
C05	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C327	1-126-933-11	ELECT 100MF	20% 16V
C06	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C328	1-126-933-11	ELECT 100MF	20% 16V
C07	1-104-664-11	ELECT 47MF	20%	C329	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C08	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C330	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C09	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C331	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C10	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C332	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C11	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C333	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C12	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C334	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C14	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C335	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
C15	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C336	1-163-096-00	CERAMIC CHIP 13PF	5% 50V
C16	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C337	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C17	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C338	1-104-664-11	ELECT 47MF	20% 25V
C18	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C339	1-126-964-11	ELECT 10MF	20% 50V
C19	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C340	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C20	1-163-124-00	CERAMIC CHIP 200PF	5% 50V	C341	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C21	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	C342	1-126-964-11	ELECT 10MF	20% 50V
C22	1-104-664-11	ELECT 47MF	20%	C343	1-126-964-11	ELECT 10MF	20% 50V
C23	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C344	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C301	1-163-111-00	CERAMIC CHIP 56PF	5% 50V	C501	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C302	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C502	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C303	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C503	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C304	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C504	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C305	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C505	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C306	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C506	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C307	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C507	1-104-664-11	ELECT 47MF	20% 25V
C308	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C508	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C309	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C509	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C310	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C510	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C311	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C511	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C312	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C513	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C313	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C514	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C315	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C515	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C316	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	C516	1-162-568-11	CERAMIC CHIP 0.33MF	10% 16V
C317	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C517	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C318	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C518	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C319	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C519	1-124-902-00	ELECT 0.47MF	20% 50V
C320	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C520	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C522	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C525	1-163-038-00	CERAMIC CHIP 0.1MF	25V

B3

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C527	1-164-005-11	CERAMIC CHIP 0.47MF	16V			< CONNECTOR >	
C528	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C530	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	CN0302	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
C531	1-104-664-11	ELECT 47MF	20% 25V			< DIODE >	
C532	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C533	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D01	8-719-914-44	DIODE DAP202K	
C534	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D301	8-719-031-68	DIODE HVU359TRF	
C536	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D302	8-719-031-68	DIODE HVU359TRF	
C537	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D303	8-719-404-46	DIODE MA110	
				D1301	8-719-404-46	DIODE MA110	
C538	1-104-664-11	ELECT 47MF	20% 25V				
C539	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D1302	8-719-914-43	DIODE DAN202K	
C540	1-104-664-11	ELECT 47MF	20% 25V	D1304	8-719-914-43	DIODE DAN202K	
C541	1-104-664-11	ELECT 47MF	20% 25V	D1309	8-719-914-43	DIODE DAN202K	
C542	1-163-038-00	CERAMIC CHIP 0.1MF	25V			< ENCAPSULATED FILTER >	
C543	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C544	1-104-664-11	ELECT 47MF	20% 25V	FL01	1-233-446-11	FILTER, LOW PASS	
C545	1-163-038-00	CERAMIC CHIP 0.1MF	25V	FL02	1-233-438-11	FILTER, LOW PASS	
C546	1-163-038-00	CERAMIC CHIP 0.1MF	25V	FL03	1-233-438-11	FILTER, LOW PASS	
C547	1-126-924-11	ELECT 330MF	20% 10V	FL301	1-236-620-11	FILTER, LOW PASS	
				FL302	1-236-620-11	FILTER, LOW PASS	
C548	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C553	1-163-038-00	CERAMIC CHIP 0.1MF	25V	FL352	1-233-436-11	FILTER, LOW PASS	
C556	1-163-038-00	CERAMIC CHIP 0.1MF	25V	FL353	1-233-435-11	FILTER, LOW PASS	
C557	1-163-111-00	CERAMIC CHIP 56PF	5% 50V	FL355	1-233-436-11	FILTER, LOW PASS	
C558	1-163-111-00	CERAMIC CHIP 56PF	5% 50V	FL1301	1-233-434-11	FILTER, LOW PASS	
				FL1302	1-233-434-11	FILTER, LOW PASS	
C559	1-163-111-00	CERAMIC CHIP 56PF	5% 50V			< IC >	
C560	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C561	1-163-038-00	CERAMIC CHIP 0.1MF	25V	IC01	8-752-338-46	IC CXD1178Q	
C563	1-104-664-11	ELECT 47MF	20% 25V	IC02	8-752-370-87	IC CXD2035R	
C1301	1-163-031-11	CERAMIC CHIP 0.01MF	50V	IC04	8-752-365-06	IC CXK48324R-1	
				IC05	8-752-365-06	IC CXK48324R-1	
C1302	1-126-964-11	ELECT 10MF	20% 50V	IC06	8-759-362-96	IC MB81C1501PFTN-G-D-E	
C1303	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C1306	1-126-964-11	ELECT 10MF	20% 50V	IC301	8-752-357-86	IC CXD2300Q-T4	
C1307	1-126-964-11	ELECT 10MF	20% 50V	IC302	8-752-369-15	IC CXD2030R	
C1308	1-126-964-11	ELECT 10MF	20% 50V	IC501	8-759-925-76	IC SN74HC08ANS	
				IC502	8-752-370-85	IC CXD2032Q-TL	
C1309	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	IC503	8-752-357-62	IC CXD2307R	
C1310	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V				
C1311	1-163-038-00	CERAMIC CHIP 0.1MF	25V	IC504	8-759-350-07	IC SDA9205-2GEG	
C1313	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	IC505	8-759-033-43	IC MC74F244M	
C1314	1-126-964-11	ELECT 10MF	20% 50V	IC506	8-759-033-43	IC MC74F244M	
				IC507	8-759-032-11	IC MC74HC04AF	
C1315	1-163-031-11	CERAMIC CHIP 0.01MF	50V	IC1301	8-759-368-89	IC TDA8395T/N2	
C1316	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1317	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	IC1302	8-752-070-58	IC CXA1860Q-T4	
C1318	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	IC1305	8-759-032-11	IC MC74HC04AF	
C1319	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V			< COIL >	
C1320	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1321	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	L01	1-408-397-00	INDUCTOR 1UH	
C1322	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	L02	1-408-397-00	INDUCTOR 1UH	
C1323	1-163-099-00	CERAMIC CHIP 18PF	5% 50V	L301	1-408-403-00	INDUCTOR 3.3UH	
C1324	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V	L302	1-408-403-00	INDUCTOR 3.3UH	
				L303	1-408-403-00	INDUCTOR 3.3UH	
C1347	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C1348	1-163-038-00	CERAMIC CHIP 0.1MF	25V	L304	1-414-248-11	INDUCTOR 2.2UH	
C1349	1-163-101-00	CERAMIC CHIP 22PF	5% 50V	L305	1-414-248-11	INDUCTOR 2.2UH	
C1350	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	L306	1-408-403-00	INDUCTOR 3.3UH	
C1351	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	L307	1-408-397-00	INDUCTOR 1UH	
				L308	1-408-397-00	INDUCTOR 1UH	
C1352	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C1431	1-163-038-00	CERAMIC CHIP 0.1MF	25V	L501	1-408-397-00	INDUCTOR 1UH	
C1432	1-104-664-11	ELECT 47MF	20% 25V	L502	1-408-397-00	INDUCTOR 1UH	
C1443	1-104-664-11	ELECT 47MF	20% 25V	L503	1-414-243-11	INDUCTOR 1UH	
C1446	1-163-038-00	CERAMIC CHIP 0.1MF	25V				

B3

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
L506	1-408-397-00	INDUCTOR 1UH		R07	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W	
L507	1-408-397-00	INDUCTOR 1UH		R08	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W	
L508	1-408-397-00	INDUCTOR 1UH		R09	1-216-662-11	METAL CHIP 3K 0.50% 1/10W	
L509	1-408-397-00	INDUCTOR 1UH		R24	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
L512	1-408-405-00	INDUCTOR 4.7UH					
L513	1-408-405-00	INDUCTOR 4.7UH		R25	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
L1406	1-408-403-00	INDUCTOR 3.3UH		R26	1-216-655-11	METAL CHIP 1.5K 0.50% 1/10W	
< TRANSISTOR >				R27	1-216-047-91	METAL GLAZE 820 5% 1/10W	
Q01	8-729-216-22	TRANSISTOR 2SA1162-G		R28	1-216-047-91	METAL GLAZE 820 5% 1/10W	
Q02	8-729-216-22	TRANSISTOR 2SA1162-G		R29	1-216-047-91	METAL GLAZE 820 5% 1/10W	
Q03	8-729-216-22	TRANSISTOR 2SA1162-G					
Q04	8-729-216-22	TRANSISTOR 2SA1162-G		R36	1-216-631-11	METAL CHIP 150 0.50% 1/10W	
Q05	8-729-216-22	TRANSISTOR 2SA1162-G		R37	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
				R38	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
Q06	8-729-216-22	TRANSISTOR 2SA1162-G		R53	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q301	8-729-216-22	TRANSISTOR 2SA1162-G		R56	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q302	8-729-216-22	TRANSISTOR 2SA1162-G					
Q303	8-729-216-22	TRANSISTOR 2SA1162-G		R58	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
Q304	8-729-216-22	TRANSISTOR 2SA1162-G		R59	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
				R60	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q305	8-729-216-22	TRANSISTOR 2SA1162-G		R301	1-216-022-00	METAL GLAZE 75 5% 1/10W	
Q306	8-729-920-74	TRANSISTOR 2SC2412K-QR		R302	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q307	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q308	8-729-920-74	TRANSISTOR 2SC2412K-QR		R303	1-216-039-00	METAL GLAZE 390 5% 1/10W	
Q309	8-729-920-74	TRANSISTOR 2SC2412K-QR		R304	1-208-767-11	METAL CHIP 240 0.50% 1/10W	
				R305	1-216-043-91	METAL GLAZE 560 5% 1/10W	
Q351	8-729-920-74	TRANSISTOR 2SC2412K-QR		R306	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q352	8-729-920-74	TRANSISTOR 2SC2412K-QR		R307	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
Q353	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q354	8-729-216-22	TRANSISTOR 2SA1162-G		R308	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
Q356	8-729-216-22	TRANSISTOR 2SA1162-G		R309	1-216-664-11	METAL CHIP 3.6K 0.50% 1/10W	
				R310	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
Q358	8-729-216-22	TRANSISTOR 2SA1162-G		R311	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
Q359	8-729-900-53	TRANSISTOR DTC114EK		R312	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
Q360	8-729-901-04	TRANSISTOR DTA114EK					
Q501	8-729-216-22	TRANSISTOR 2SA1162-G		R313	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W	
Q502	8-729-216-22	TRANSISTOR 2SA1162-G		R314	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
				R315	1-208-767-11	METAL CHIP 240 0.50% 1/10W	
Q503	8-729-216-22	TRANSISTOR 2SA1162-G		R316	1-216-022-00	METAL GLAZE 75 5% 1/10W	
Q504	8-729-216-22	TRANSISTOR 2SA1162-G		R317	1-216-043-91	METAL GLAZE 560 5% 1/10W	
Q505	8-729-119-78	TRANSISTOR 2SC22785-HFE					
Q507	8-729-216-22	TRANSISTOR 2SA1162-G		R318	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q508	8-729-216-22	TRANSISTOR 2SA1162-G		R319	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
				R320	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
Q509	8-729-216-22	TRANSISTOR 2SA1162-G		R321	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
Q510	8-729-216-22	TRANSISTOR 2SA1162-G		R322	1-216-043-91	METAL GLAZE 560 5% 1/10W	
Q1301	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1302	8-729-920-74	TRANSISTOR 2SC2412K-QR		R323	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
Q1303	8-729-920-74	TRANSISTOR 2SC2412K-QR		R324	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
				R325	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
Q1304	8-729-920-74	TRANSISTOR 2SC2412K-QR		R326	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
Q1305	8-729-920-74	TRANSISTOR 2SC2412K-QR		R327	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
Q1306	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1307	8-729-920-74	TRANSISTOR 2SC2412K-QR		R328	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q1316	8-729-920-74	TRANSISTOR 2SC2412K-QR		R329	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
				R330	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
Q1317	8-729-920-74	TRANSISTOR 2SC2412K-QR		R331	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
Q1318	8-729-216-22	TRANSISTOR 2SA1162-G		R332	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
Q1319	8-729-216-22	TRANSISTOR 2SA1162-G					
< RESISTOR >				R333	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R01	1-216-629-11	METAL CHIP 120 0.50% 1/10W		R334	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R02	1-216-635-11	METAL CHIP 220 0.50% 1/10W		R335	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
R03	1-216-635-11	METAL CHIP 220 0.50% 1/10W		R336	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R04	1-216-043-91	METAL GLAZE 560 5% 1/10W		R337	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R05	1-216-043-91	METAL GLAZE 560 5% 1/10W					
				R338	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
R06	1-216-043-91	METAL GLAZE 560 5% 1/10W		R339	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
				R356	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
				R357	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
				R358	1-216-645-11	METAL CHIP 560 0.50% 1/10W	
				R359	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	

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B3

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R360	1-216-645-11	METAL CHIP	560 0.50% 1/10W	R1302	1-216-025-00	METAL GLAZE	100 5% 1/10W
R361	1-216-645-11	METAL CHIP	560 0.50% 1/10W	R1303	1-216-677-11	METAL CHIP	12K 0.50% 1/10W
R362	1-208-800-11	METAL CHIP	5.6K 0.50% 1/10W	R1304	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R363	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R1305	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R364	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R1306	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R365	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R1307	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W
R367	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R1308	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R368	1-216-660-11	METAL CHIP	2.4K 0.50% 1/10W	R1310	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R372	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R1311	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R373	1-216-660-11	METAL CHIP	2.4K 0.50% 1/10W	R1312	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R374	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1313	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R375	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1314	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W
R376	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1315	1-208-767-11	METAL CHIP	240 0.50% 1/10W
R377	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R1316	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R378	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1317	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R501	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1318	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R502	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1319	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R505	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1320	1-216-648-11	METAL CHIP	750 0.50% 1/10W
R506	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1321	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R507	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1322	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R508	1-216-632-11	METAL CHIP	160 0.50% 1/10W	R1323	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R509	1-216-631-11	METAL CHIP	150 0.50% 1/10W	R1324	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R510	1-216-631-11	METAL CHIP	150 0.50% 1/10W	R1325	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W
R511	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R1326	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W
R512	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1327	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R513	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W	R1328	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R516	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1329	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R517	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1330	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R518	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1331	1-216-650-11	METAL CHIP	910 0.50% 1/10W
R519	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R1332	1-216-626-11	METAL CHIP	91 0.50% 1/10W
R520	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1366	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W
R521	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R1367	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R522	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R1368	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R523	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1369	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R524	1-216-121-91	METAL GLAZE	1M 5% 1/10W	R1370	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R529	1-218-756-11	METAL CHIP	150K 0.50% 1/10W	R1371	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R530	1-216-047-91	METAL GLAZE	820 5% 1/10W	R1372	1-216-105-91	METAL GLAZE	220K 5% 1/10W
R531	1-216-047-91	METAL GLAZE	820 5% 1/10W	R1373	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R532	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1374	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R535	1-216-047-91	METAL GLAZE	820 5% 1/10W	R1375	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R538	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1376	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R539	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1377	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R540	1-216-073-00	METAL GLAZE	10K 5% 1/10W	< CRYSTAL >			
R554	1-216-665-11	METAL CHIP	3.9K 0.50% 1/10W	X301	1-760-457-11	VIBRATOR, CRYSTAL (VCO)	
R555	1-216-666-11	METAL CHIP	4.3K 0.50% 1/10W	X302	1-527-722-00	OSCILLATOR, CRYSTAL	
R556	1-216-631-11	METAL CHIP	150 0.50% 1/10W	*****			
R557	1-216-603-11	METAL CHIP	10 0.50% 1/10W	*A-1624-052-A FI BOARD, COMPLETE			
R558	1-216-073-00	METAL GLAZE	10K 5% 1/10W	*****			
R559	1-216-073-00	METAL GLAZE	10K 5% 1/10W	< CONNECTOR >			
R561	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	CN0007	1-580-844-11	PIN, CONNECTOR (POWER)	
R562	1-216-031-00	METAL GLAZE	180 5% 1/10W	CN0622	1-695-292-11	PIN, CONNECTOR (POWER)	
R563	1-216-031-00	METAL GLAZE	180 5% 1/10W	< FUSE >			
R564	1-216-031-00	METAL GLAZE	180 5% 1/10W	F651	1-576-232-21	FUSE (H.B.C.) (5A 250V)	
R565	1-216-073-00	METAL GLAZE	10K 5% 1/10W		1-533-230-12	SOLENOID, FUSE F651	
R566	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R575	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R577	1-216-295-00	METAL GLAZE	0 5% 1/10W				
R579	1-216-631-11	METAL CHIP	150 0.50% 1/10W				
R580	1-216-295-00	METAL GLAZE	0 5% 1/10W				
R1301	1-216-049-00	METAL GLAZE	1K 5% 1/10W				

F1

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< SWITCH >				C208	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
5651	1-571-433-21	SWITCH, PUSH (AC POWER)		C209	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
*****				C210	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
				C211	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
				C212	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
				C213	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
*A-1632-462-A	A BOARD, COMPLETE (KV-29X2A/29X2D)			C214	1-126-967-11	ELECT 47MF	20% 50V
*****				C215	1-126-967-11	ELECT 47MF	20% 50V
*A-1632-461-A	A BOARD, COMPLETE (KV-29X2B)			C216	1-164-344-11	CERAMIC CHIP 0.068MF	10% 25V
*****				C217	1-164-344-11	CERAMIC CHIP 0.068MF	10% 25V
*A-1632-460-A	A BOARD, COMPLETE (KV-29X2E)						
*****				C218	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
4-201-023-01	SPACER, INSULATING			C219	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
*4-368-683-21	SPRING, TRANSISTOR			C220	1-124-925-11	ELECT 2.2MF	20% 50V
4-382-854-11	SCREW (M3X10), P, SW (+)			C221	1-124-925-11	ELECT 2.2MF	20% 50V
< CAPACITOR >				C226	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C001	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C227	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C002	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C228	1-124-925-11	ELECT 2.2MF	20% 50V
C004	1-164-222-11	CERAMIC CHIP 0.22MF	25V	C229	1-124-925-11	ELECT 2.2MF	20% 50V
C007	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C230	1-136-177-00	FILM 1MF	5% 50V
C008	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C231	1-136-177-00	FILM 1MF	5% 50V
				C232	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C009	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C233	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C010	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C234	1-126-964-11	ELECT 10MF	20% 50V
C012	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C235	1-126-964-11	ELECT 10MF	20% 50V
C014	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C236	1-126-933-11	ELECT 100MF	20% 16V
C015	1-124-902-00	ELECT 0.47MF	20% 50V	C237	1-104-665-11	ELECT 100MF	20% 25V
C016	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C238	1-136-165-00	FILM 0.1MF	5% 50V
C017	1-164-222-11	CERAMIC CHIP 0.22MF	25V	C239	1-136-165-00	FILM 0.1MF	5% 50V
C018	1-124-925-11	ELECT 2.2MF	20% 50V	C240	1-104-665-11	ELECT 100MF	20% 25V
C019	1-126-965-11	ELECT 22MF	20% 50V	C242	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C020	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C243	1-126-967-11	ELECT 47MF	20% 16V
C022	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C248	1-163-185-00	CERAMIC CHIP 150PF	5% 50V
C023	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C251	1-136-165-00	FILM 0.1MF	5% 50V
C024	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C252	1-136-165-00	FILM 0.1MF	5% 50V
C025	1-164-222-11	CERAMIC CHIP 0.22MF	25V	C253	1-126-967-11	ELECT 47MF	20% 16V
C026	1-164-222-11	CERAMIC CHIP 0.22MF	25V	C256	1-126-967-11	ELECT 47MF	20% 16V
C027	1-164-346-11	CERAMIC CHIP 1MF	16V	C258	1-126-934-11	ELECT 220MF	20% 16V
C028	1-126-964-11	ELECT 10MF	20% 50V	C259	1-107-714-11	ELECT 10MF	20% 16V
C042	1-164-346-11	CERAMIC CHIP 1MF	16V	C266	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C072	1-126-934-11	ELECT 220MF	20% 16V	C267	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C075	1-164-346-11	CERAMIC CHIP 1MF	16V	C268	1-136-165-00	FILM 0.1MF	5% 50V
C076	1-126-923-11	ELECT 220MF	20% 10V	C269	1-136-165-00	FILM 0.1MF	5% 50V
C081	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	C270	1-126-953-11	ELECT 2200MF	20% 35V
C104	1-126-934-11	ELECT 220MF	20% 16V	C271	1-126-953-11	ELECT 2200MF	20% 35V
C105	1-126-965-11	ELECT 22MF	20% 50V	C272	1-126-953-11	ELECT 2200MF	20% 35V
C106	1-126-963-11	ELECT 4.7MF	20% 50V	C273	1-126-953-11	ELECT 2200MF	20% 35V
(KV-29X2A/29X2D/29X2E)				C274	1-136-165-00	FILM 0.1MF	5% 50V
				C275	1-136-165-00	FILM 0.1MF	5% 50V
(KV-29X2B)				C280	1-126-967-11	ELECT 47MF	20% 16V
C108	1-126-964-11	ELECT 10MF	20% 50V	C281	1-104-661-91	ELECT 330MF	20% 16V
C109	1-102-951-00	CERAMIC 15PF	5% 50V	C282	1-104-664-11	ELECT 47MF	20% 25V
(KV-29X2B)				C283	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C120	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C285	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C201	1-163-078-11	CERAMIC CHIP 0.033MF	10% 25V	C351	1-126-964-11	ELECT 10MF	20% 50V
C202	1-163-078-11	CERAMIC CHIP 0.033MF	10% 25V	C352	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C203	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C355	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C204	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C356	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C205	1-126-964-11	ELECT 10MF	20% 50V	C357	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C206	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	C358	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C207	1-137-613-11	FILM 0.0018MF	2% 100V	C359	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C360	1-164-005-11	CERAMIC CHIP 0.47MF	16V	C1127	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C361	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1128	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C362	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1129	1-162-568-11	CERAMIC CHIP 0.33MF	25V
C364	1-126-964-11	ELECT 10MF	20% 50V	C1130	1-124-903-11	ELECT 1MF	20% 50V
C372	1-126-964-11	ELECT 10MF	20% 50V	C1131	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C373	1-126-964-11	ELECT 10MF	20% 50V	C1132	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C580	1-126-964-11	ELECT 10MF	20% 50V	C1133	1-126-967-11	ELECT 47MF	20% 16V
C581	1-124-902-00	ELECT 0.47MF	20% 50V	C1134	1-126-964-11	ELECT 10MF	20% 50V
C582	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	C1135	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C585	1-126-967-11	ELECT 47MF	20% 16V	C1136	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C586	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1137	1-163-095-00	CERAMIC CHIP 12PF	5% 50V
C587	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1139	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C588	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1142	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V
C589	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1143	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C590	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1147	1-126-967-11	ELECT 47MF	20% 16V
C591	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1148	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C592	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1150	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C593	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1151	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C594	1-126-967-11	ELECT 47MF	20% 50V	C1152	1-126-967-11	ELECT 47MF	20% 16V
C681	1-104-664-11	ELECT 47MF	20% 25V	C1157	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C682	1-126-967-11	ELECT 47MF	20% 16V	C1501	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C683	1-104-664-11	ELECT 47MF	20% 25V	C1502	1-124-903-11	ELECT 1MF	20% 50V
C684	1-104-664-11	ELECT 47MF	20% 25V	C1504	1-126-968-11	ELECT 100MF	20% 50V
C687	1-126-967-11	ELECT 47MF	20% 16V	C1505	1-137-371-11	FILM 0.015MF	5% 50V
C688	1-126-967-11	ELECT 47MF	20% 16V	C1506	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C689	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1507	1-106-383-00	MYLAR 0.047MF	10% 100V
C690	1-126-967-11	ELECT 47MF	20% 16V	C1508	1-137-423-11	MYLAR 0.15MF	10% 100V
C691	1-126-967-11	ELECT 47MF	20% 16V	C1510	1-136-853-11	FILM 0.56MF	5% 200V
C692	1-126-967-11	ELECT 47MF	20% 16V	C1511	1-126-941-11	ELECT 470MF	20% 25V
C693	1-126-967-11	ELECT 47MF	20% 16V	C1512	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1007	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1513	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1008	1-126-967-11	ELECT 47MF	20% 16V	C1514	1-126-941-11	ELECT 470MF	20% 25V
< C1101-C1157 FITTED ON >				C1516	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
< KV-29X2B/29X2E >				C1518	1-126-963-11	ELECT 4.7MF	20% 50V
C1101	1-163-131-00	CERAMIC CHIP 390PF	5% 50V	C1520	1-126-965-11	ELECT 22MF	20% 50V
C1102	1-163-093-00	CERAMIC CHIP 10PF	5% 50V	C1521	1-107-698-11	ELECT 10MF	20% 25V
C1103	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1522	1-126-933-11	ELECT 100MF	20% 16V
C1104	1-126-964-11	ELECT 10MF	20% 50V	C1523	1-104-664-11	ELECT 47MF	20% 25V
C1105	1-126-964-11	ELECT 10MF	20% 50V	C1531	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V
C1106	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1532	1-126-964-11	ELECT 10MF	20% 50V
C1107	1-126-967-11	ELECT 47MF	20% 16V	C1533	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C1108	1-126-964-11	ELECT 10MF	20% 50V	C1534	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C1110	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C1535	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V
C1111	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C1537	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1112	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C1539	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1113	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	C1540	1-126-967-11	ELECT 47MF	20% 50V
C1114	1-126-967-11	ELECT 47MF	20% 16V	C1541	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C1115	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	C1542	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1116	1-126-967-11	ELECT 47MF	20% 16V	C1543	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1117	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1544	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1118	1-126-967-11	ELECT 47MF	20% 16V	C1545	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1119	1-126-967-11	ELECT 47MF	20% 16V	C1546	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1120	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	C1547	1-164-695-11	CERAMIC CHIP 0.0022MF	5% 50V
C1121	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V	C1548	1-163-055-00	CERAMIC CHIP 0.0047MF	10% 50V
C1122	1-126-967-11	ELECT 47MF	20% 16V	C1549	1-163-055-00	CERAMIC CHIP 0.0047MF	10% 50V
C1123	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1550	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1124	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1551	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1125	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1552	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1126	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C1553	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C1554	1-163-038-00	CERAMIC CHIP 0.1MF	25V

— 102 —

The components identified by shading and marked * are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque * sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
IC351	8-759-183-36	IC TDA8443B		Q281	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC572	8-752-070-54	IC CXA1839Q-T6		Q282	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC681	8-759-518-68	IC PQ12RF21		Q351	8-729-216-22	TRANSISTOR 2SA1162-G	
	4-202-373-01	SPRING, IC ;IC681		Q352	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q571	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC683	8-759-908-15	IC TL431CLP		Q581	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC684	8-759-195-63	IC PQ09RE11		Q681	8-729-032-65	TRANSISTOR 2SD2396H	
IC685	8-759-510-52	IC TEA7605		Q1105	8-729-920-74	TRANSISTOR 2SC2412K-QR (KV-29X2B/29X2E)	
IC686	8-759-513-71	IC PQ05RF21		Q1106	8-729-920-74	TRANSISTOR 2SC2412K-QR (KV-29X2B/29X2E)	
	4-202-373-01	SPRING, IC ;IC686		Q1107	8-729-920-74	TRANSISTOR 2SC2412K-QR (KV-29X2B/29X2E)	
IC1001	8-752-873-28	IC CXP85112B-646Q-TL		Q1108	8-729-920-74	TRANSISTOR 2SC2412K-QR (KV-29X2B/29X2E)	
IC1101	8-759-251-58	IC SAA7283GP (KV-29X2B/29X2E)		Q1503	8-729-216-22	TRANSISTOR 2SA1162-G	
IC1501	8-759-192-71	IC STV9379		Q1504	8-729-920-74	TRANSISTOR 2SC2412K-QR	
	4-202-373-01	SPRING, IC ;IC1501		Q1505	8-729-931-45	TRANSISTOR IRF610	
IC1531	8-752-068-39	IC CXA1840S		Q1506	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC2001	8-759-248-91	IC SDA9086-5		Q1507	8-729-216-22	TRANSISTOR 2SA1162-G	
IC2002	8-759-337-48	IC SDA5273P-C26-GE6		Q1508	8-729-027-59	TRANSISTOR DTC144EKA-T146	
IC2003	8-759-188-60	IC MB81C4256A-70PSZG		Q1510	8-729-216-22	TRANSISTOR 2SA1162-G	
IC2701	8-759-603-37	IC M5216P		Q1511	8-729-027-59	TRANSISTOR DTC144EKA-T146	
		< IF BLOCK >		Q1512	8-729-027-59	TRANSISTOR DTC144EKA-T146	
IFB101	1-473-191-11	IF BLOCK (KV-29X2A/29X2D/29X2E)		Q1531	8-729-216-22	TRANSISTOR 2SA1162-G	
	1-467-573-13	IF BLOCK (KV-29X2B)		Q1532	8-729-216-22	TRANSISTOR 2SA1162-G	
		< COIL >		Q1533	8-729-216-22	TRANSISTOR 2SA1162-G	
L001	1-408-421-00	INDUCTOR 100UH		Q1544	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L101	1-408-607-31	INDUCTOR 22UH		Q1545	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L201	1-410-067-21	INDUCTOR 4.7MMH		Q1547	8-729-216-22	TRANSISTOR 2SA1162-G	
L1002	1-408-397-00	INDUCTOR 1UH		Q1548	8-729-216-22	TRANSISTOR 2SA1162-G	
L1101	1-412-004-31	INDUCTOR CHIP 6.8UH (KV-29X2B/29X2E)		Q1549	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q1550	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L1102	1-408-419-00	INDUCTOR 68UH (KV-29X2B/29X2E)		Q2001	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L1103	1-408-419-00	INDUCTOR 68UH (KV-29X2B/29X2E)		Q2002	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L1501	1-412-524-11	INDUCTOR 8.2UH		Q2004	8-729-027-52	TRANSISTOR DTC124EKA-T146	
L1531	1-412-537-31	INDUCTOR 100UH		Q2005	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L2001	1-410-674-31	INDUCTOR 82UH		Q2006	8-729-027-59	TRANSISTOR DTC144EKA-T146	
				Q2008	8-729-027-52	TRANSISTOR DTC124EKA-T146	
L2002	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH		Q2701	8-729-920-74	TRANSISTOR 2SC2412K-QR	
		< IC LINK >				< RESISTOR >	
88881	1-534-537-51	LINK, IC (ICP-W25) 1A		JR001	1-216-295-00	METAL GLAZE 0 5% 1/1W	
		< TRANSISTOR >		JR002	1-216-295-00	METAL GLAZE 0 5% 1/1W	
Q002	8-729-216-22	TRANSISTOR 2SA1162-G		JR003	1-216-295-00	METAL GLAZE 0 5% 1/1W	
Q005	8-729-027-59	TRANSISTOR DTC144EKA-T146		JR101	1-216-295-00	METAL GLAZE 0 5% 1/1W	
Q006	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR102	1-216-295-00	METAL GLAZE 0 5% 1/1W	
Q007	8-729-027-59	TRANSISTOR DTC144EKA-T146		JR103	1-216-295-00	METAL GLAZE 0 5% 1/1W	
Q008	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR201	1-216-295-00	METAL GLAZE 0 5% 1/1W	
						(KV-2912 A/29X2D)	
Q009	8-729-027-52	TRANSISTOR DTC124EKA-T146		JR202	1-216-295-00	METAL GLAZE 0 5% 1/1W	
Q010	8-729-027-52	TRANSISTOR DTC124EKA-T146				(KV-2912 A/29X2D)	
Q011	8-729-027-52	TRANSISTOR DTC124EKA-T146		JR203	1-216-295-00	METAL GLAZE 0 5% 1/1W	
Q102	8-729-027-52	TRANSISTOR DTC124EKA-T146		JR204	1-216-295-00	METAL GLAZE 0 5% 1/1W	
Q103	8-729-027-52	TRANSISTOR DTC124EKA-T146		JR279	1-216-295-00	METAL GLAZE 0 5% 1/1W	
Q106	8-729-821-00	TRANSISTOR 2SA1207		JR280	1-216-295-00	METAL GLAZE 0 5% 1/1W	
Q107	8-729-255-12	TRANSISTOR 2SC2551-0		JR361	1-216-295-00	METAL GLAZE 0 5% 1/1W	
Q203	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR362	1-216-295-00	METAL GLAZE 0 5% 1/1W	
Q252	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR363	1-216-295-00	METAL GLAZE 0 5% 1/1W	
Q253	8-729-216-22	TRANSISTOR 2SA1162-G		JR1013	1-216-295-00	METAL GLAZE 0 5% 1/1W	
Q254	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR1501	1-216-295-00	METAL GLAZE 0 5% 1/1W	
Q255	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR2002	1-216-295-00	METAL GLAZE 0 5% 1/1W	
Q256	8-729-920-74	TRANSISTOR 2SC2412K-QR		R001	1-216-025-00	METAL GLAZE 100 5% 1/1W	
Q257	8-729-920-74	TRANSISTOR 2SC2412K-QR		R002	1-216-025-00	METAL GLAZE 100 5% 1/1W	
Q258	8-729-920-74	TRANSISTOR 2SC2412K-QR					

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R003	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R116	1-215-901-00	METAL OXIDE	33K 5% 2W F
R004	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R121	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R006	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R127	1-216-295-00	METAL GLAZE	0 5% 1/10W
R007	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R201	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W
R008	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R202	1-216-662-11	METAL CHIP	3K 0.50% 1/10W
R009	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R203	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W
R010	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R204	1-216-662-11	METAL CHIP	3K 0.50% 1/10W
R012	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R205	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R013	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R206	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R014	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R207	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R016	1-216-045-00	METAL GLAZE	680 5% 1/10W	R208	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R017	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R209	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R018	1-216-025-00	METAL GLAZE	100 5% 1/10W	R210	1-247-734-11	CARBON	39 5% 1/2W
R020	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R211	1-247-734-11	CARBON	39 5% 1/2W
R021	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R212	1-216-025-00	METAL GLAZE	100 5% 1/10W
R022	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R213	1-216-025-00	METAL GLAZE	100 5% 1/10W
R025	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R214	1-216-025-00	METAL GLAZE	100 5% 1/10W
R028	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R218	1-249-389-11	CARBON	4.7 5% 1/4W F
R029	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R219	1-249-389-11	CARBON	4.7 5% 1/4W F
R030	1-216-025-00	METAL GLAZE	100 5% 1/10W	R221	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R031	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R222	1-249-389-11	CARBON	4.7 5% 1/4W F
R032	1-216-033-00	METAL GLAZE	220 5% 1/10W	R241	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R033	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R245	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R034	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R246	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R035	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R247	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R036	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R248	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R037	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R249	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R038	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R250	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R047	1-216-101-00	METAL GLAZE	150K 5% 1/10W	R251	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R048	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R253	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R049	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R257	1-216-041-00	METAL GLAZE	470 5% 1/10W
R050	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R258	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R051	1-216-295-00	METAL GLAZE	0 5% 1/10W	R259	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R052	1-216-295-00	METAL GLAZE	0 5% 1/10W	R260	1-216-041-00	METAL GLAZE	470 5% 1/10W
R054	1-216-041-00	METAL GLAZE	470 5% 1/10W	R261	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R062	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R262	1-216-357-00	METAL OXIDE	4.7 5% 1W F
R067	1-216-043-91	METAL GLAZE	560 5% 1/10W	R263	1-216-357-00	METAL OXIDE	4.7 5% 1W F
R068	1-216-043-91	METAL GLAZE	560 5% 1/10W	R264	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R069	1-216-037-00	METAL GLAZE	330 5% 1/10W	R265	1-216-079-00	METAL GLAZE	18K 5% 1/10W
R070	1-216-017-91	METAL GLAZE	47 5% 1/10W	R266	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R071	1-216-017-91	METAL GLAZE	47 5% 1/10W	R267	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R072	1-216-033-00	METAL GLAZE	220 5% 1/10W	R268	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R073	1-216-033-00	METAL GLAZE	220 5% 1/10W	R269	1-216-039-00	METAL GLAZE	390 5% 1/10W
R074	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R270	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R075	1-216-037-00	METAL GLAZE	330 5% 1/10W	R271	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R076	1-216-037-00	METAL GLAZE	330 5% 1/10W	R272	1-216-025-00	METAL GLAZE	100 5% 1/10W
R077	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R273	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R078	1-216-037-00	METAL GLAZE	330 5% 1/10W	R274	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R083	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R275	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R085	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R276	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R101	1-216-025-00	METAL GLAZE	100 5% 1/10W	R277	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R102	1-216-025-00	METAL GLAZE	100 5% 1/10W	R278	1-216-103-00	METAL GLAZE	180K 5% 1/10W
R105	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R279	1-216-103-00	METAL GLAZE	180K 5% 1/10W
R108	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R291	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R109	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R292	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R110	1-216-079-00	METAL GLAZE	18K 5% 1/10W	R293	1-216-033-00	METAL GLAZE	220 5% 1/10W
R111	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R294	1-216-033-00	METAL GLAZE	220 5% 1/10W
R113	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R295	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R114	1-216-202-00	METAL GLAZE	1.5K 5% 1/8W	R296	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R115	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R297	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R298	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W	R1028	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R299	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W			< R1101 - R1151 FITTED ON >	
R351	1-216-033-00	METAL GLAZE	220 5% 1/10W			< KV-29X2B/29X2E >	
R352	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1101	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R353	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1102	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R354	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1103	1-216-134-00	METAL GLAZE 2.2 5% 1/8W	
R355	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W	R1104	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R356	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W	R1105	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
R357	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W	R1106	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R358	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1107	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R364	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1108	1-216-121-91	METAL GLAZE 1M 5% 1/10W	
		(KV-29X2A/29X2D/29X2E)		R1109	1-216-121-91	METAL GLAZE 1M 5% 1/10W	
R365	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1110	1-216-150-91	METAL GLAZE 10 5% 1/8W	
		(KV-29X2A/29X2D/29X2E)					
R366	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1111	1-216-025-00	METAL GLAZE 100 5% 1/10W	
		(KV-29X2A/29X2D/29X2E)		R1112	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R367	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1113	1-216-117-00	METAL GLAZE 680K 5% 1/10W	
		(KV-29X2B)		R1114	1-216-158-00	METAL GLAZE 22 5% 1/8W	
R369	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1115	1-216-121-91	METAL GLAZE 1M 5% 1/10W	
R371	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1116	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R372	1-216-043-91	METAL GLAZE	560 5% 1/10W	R1117	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R373	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1118	1-216-134-00	METAL GLAZE 2.2 5% 1/8W	
R375	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1124	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R376	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1125	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R377	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1132	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R378	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1133	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R379	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1144	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R380	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1145	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R384	1-216-022-00	METAL GLAZE	75 5% 1/10W	R1146	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R385	1-216-022-00	METAL GLAZE	75 5% 1/10W	R1147	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R386	1-216-022-00	METAL GLAZE	75 5% 1/10W	R1148	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R575	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1149	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R576	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1150	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R578	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1151	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R579	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1501	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R580	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1502	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W	
R581	1-216-685-11	METAL CHIP	27K 0.50% 1/10W	R1503	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R582	1-216-047-91	METAL GLAZE	820 5% 1/10W	R1504	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R583	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1505	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R584	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1506	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R587	1-216-017-91	METAL GLAZE	47 5% 1/10W	R1509	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R588	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R1512	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
R681	1-216-471-11	METAL OXIDE	27 5% 3W F	R1513	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W	
R682	1-249-407-11	CARBON	150 5% 1/4W	R1514	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R683	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1515	1-215-455-00	METAL 27K 1% 1/4W	
R684	1-249-419-11	CARBON	1.5K 5% 1/4W	R1516	1-249-385-11	CARBON 2.2 5% 1/4W F	
R685	1-247-807-31	CARBON	100 5% 1/4W	R1517	1-216-371-00	METAL OXIDE 1.5 5% 2W F	
R1001	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1519	1-216-475-11	METAL OXIDE 120 5% 3W F	
R1005	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1520	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R1007	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1521	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1008	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1522	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1009	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1523	1-216-105-91	METAL GLAZE 220K 5% 1/10W	
R1019	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1524	1-216-105-91	METAL GLAZE 220K 5% 1/10W	
R1020	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1526	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1022	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1527	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1023	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1529	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R1024	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1531	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1025	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1532	1-216-133-00	METAL GLAZE 3.3M 5% 1/10W	
R1026	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1534	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R1027	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1539	1-216-073-00	METAL GLAZE 10K 5% 1/10W	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1540	1-216-045-00	METAL GLAZE	680 5% 1/10W	R1613	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R1541	1-216-037-00	METAL GLAZE	330 5% 1/10W	R1615	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1542	1-216-182-00	METAL GLAZE	220 5% 1/8W	R1616	1-216-105-91	METAL GLAZE	220K 5% 1/10W
R1543	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1617	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1544	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1618	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1545	1-216-673-11	METAL CHIP	8.2K 0.50% 1/10W	R1619	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W
R1546	1-216-025-00	METAL GLAZE	100 5% 1/10W	R2002	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1547	1-216-025-00	METAL GLAZE	100 5% 1/10W	R2003	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1548	1-216-295-00	METAL GLAZE	0 5% 1/10W	R2005	1-216-041-00	METAL GLAZE	470 5% 1/10W
R1549	1-216-045-00	METAL GLAZE	680 5% 1/10W	R2007	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1553	1-216-025-00	METAL GLAZE	100 5% 1/10W	R2008	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1554	1-216-025-00	METAL GLAZE	100 5% 1/10W	R2009	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R1555	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R2010	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1556	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R2011	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R1557	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R2012	1-216-017-91	METAL GLAZE	47 5% 1/10W
R1558	1-216-025-00	METAL GLAZE	100 5% 1/10W	R2013	1-216-017-91	METAL GLAZE	47 5% 1/10W
R1559	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R2014	1-216-017-91	METAL GLAZE	47 5% 1/10W
R1561	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R2022	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R1562	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R2023	1-216-295-00	METAL GLAZE	0 5% 1/10W
R1563	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R2024	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1564	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R2025	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W
R1565	1-216-282-00	METAL GLAZE	3.3M 5% 1/8W	R2026	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1566	1-216-103-00	METAL GLAZE	180K 5% 1/10W	R2029	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R1569	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2030	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1570	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R2031	1-216-295-00	METAL GLAZE	0 5% 1/10W
R1571	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R2032	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R1572	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2033	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1573	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R2034	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1574	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R2035	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R1575	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R2036	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R1576	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R2037	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R1577	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R2038	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R1578	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R2039	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R1579	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R2040	1-216-125-00	METAL GLAZE	1.5M 5% 1/10W
R1580	1-215-867-00	METAL OXIDE	470 5% 1W F	R2701	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1581	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R2702	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1582	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R2703	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1583	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R2704	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1584	1-208-822-11	METAL CHIP	47K 0.50% 1/10W	R2705	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1585	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2706	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1586	1-208-806-11	METAL CHIP	10K 0.50% 1/10W	R2707	1-216-295-00	METAL GLAZE	0 5% 1/10W
R1587	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R2708	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1588	1-216-295-00	METAL GLAZE	0 5% 1/10W	R2713	1-216-295-00	METAL GLAZE	0 5% 1/10W
R1589	1-216-295-00	METAL GLAZE	0 5% 1/10W	< THERMISTOR >			
R1591	1-216-089-00	METAL GLAZE	47K 5% 1/10W	TH1501	1-800-193-00	THERMISTOR	
R1592	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	< TUNER >			
R1593	1-216-073-00	METAL GLAZE	10K 5% 1/10W	TU101	8-598-361-00	TUNER (BTP-AC402)	
R1594	1-216-286-00	METAL GLAZE	4.7M 5% 1/8W	< CRYSTAL >			
R1595	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	X1001	1-577-082-11	VIBRATOR, CERAMIC	
R1597	1-216-103-00	METAL GLAZE	180K 5% 1/10W	X1101	1-579-689-21	VIBRATOR, CRYSTAL (KV-29X2B/29X2E)	
R1601	1-216-083-00	METAL GLAZE	27K 5% 1/10W	X1531	1-760-895-21	VIBRATOR, CERAMIC	
R1602	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W	X2001	1-760-551-21	VIBRATOR, CERAMIC	
R1604	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W				
R1605	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R1607	1-216-101-00	METAL GLAZE	150K 5% 1/10W				
R1608	1-216-119-00	METAL GLAZE	820K 5% 1/10W				
R1609	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W				
R1610	1-216-075-00	METAL GLAZE	12K 5% 1/10W				
R1611	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R1612	1-216-049-00	METAL GLAZE	1K 5% 1/10W				

IF (KV-29X2A/29X2D/29X2E)

REF.NO.	PART NO.	DESCRIPTION	REMARK
	1-473-191-11	IF BLOCK (IFB-389WE) (KV-29X2A/29X2D/ ***** 29X2E)	

< CAPACITOR >

C01	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C02	1-164-299-11	CERAMIC CHIP 0.22MF	10%	25V
C03	1-164-337-11	CERAMIC CHIP 2.2MF		16V
C04	1-164-337-11	CERAMIC CHIP 2.2MF		16V
C05	1-126-965-11	ELECT 22MF	20%	50V
C06	1-126-965-11	ELECT 22MF	20%	50V
C07	1-163-019-00	CERAMIC CHIP 0.0068MF	10%	50V
C08	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C09	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C10	1-163-090-00	CERAMIC CHIP 7PF	0.25PF	50V
C11	1-164-337-11	CERAMIC CHIP 2.2MF		16V
C12	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C13	1-124-910-11	ELECT 47MF	20%	50V
C14	1-124-910-11	ELECT 47MF	20%	50V
C15	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C16	1-164-346-11	CERAMIC CHIP 1MF		16V
C17	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C18	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C19	1-164-346-11	CERAMIC CHIP 1MF		16V
C20	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C21	1-164-222-11	CERAMIC CHIP 0.22MF		25V
C22	1-124-910-11	ELECT 47MF	20%	50V
C23	1-124-910-11	ELECT 47MF	20%	50V
C24	1-124-910-11	ELECT 47MF	20%	50V
C25	1-124-910-11	ELECT 47MF	20%	50V
C26	1-124-910-11	ELECT 47MF	20%	50V
C27	1-163-133-00	CERAMIC CHIP 470PF	5%	50V
C28	1-124-910-11	ELECT 47MF	20%	50V
C29	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C30	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C31	1-124-910-11	ELECT 47MF	20%	50V
C32	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C33	1-163-086-00	CERAMIC CHIP 3PF	0.25PF	50V
C34	1-124-910-11	ELECT 47MF	20%	50V
C35	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C38	1-163-237-11	CERAMIC CHIP 27PF	5%	50V

< FILTER >

CF01	1-760-416-21	FILTER, CERAMIC
CF03	1-760-450-11	FILTER, CERAMIC
CF04	1-760-106-11	TRAP, CERAMIC
CF05	1-404-134-00	TRAP, CERAMIC (5.5MHZ)

SAW01	1-760-538-11	FILTER, SURFACE WAVE
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< CONNECTOR >

CN01	1-750-919-11	PIN, CONNECTOR (PC BOARD) 10P
CN02	1-750-919-11	PIN, CONNECTOR (PC BOARD) 10P

< DIODE >

D01	8-719-421-57	DIODE MA73-TX
D02	8-719-421-57	DIODE MA73-TX
D03	8-719-914-43	DIODE DAN202K

< IC >

IC01	8-759-289-18	IC TDA9813T-T
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REF.NO.	PART NO.	DESCRIPTION	REMARK
IC02	8-759-514-54	IC BA7046	
IC03	8-759-991-41	IC L78L05ACZ-AP	

< COIL >

L01	1-408-409-00	INDUCTOR	10UH
L02	1-403-686-11	COIL	
L03	1-408-419-00	INDUCTOR	68UH
L04	1-408-419-00	INDUCTOR	68UH
L05	1-410-790-41	INDUCTOR	0.56UH
L06	1-408-419-00	INDUCTOR	68UH

< TRANSISTOR >

Q01	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q02	8-729-901-01	TRANSISTOR DTC144EK
Q03	8-729-901-01	TRANSISTOR DTC144EK
Q04	8-729-216-22	TRANSISTOR 2SA1162-G
Q05	8-729-216-22	TRANSISTOR 2SA1162-G
Q06	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q07	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q08	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q09	8-729-920-74	TRANSISTOR 2SC2412K-QR

< RESISTOR >

JR01	1-216-296-91	METAL GLAZE	0	5%	1/4W
JR02	1-216-296-91	METAL GLAZE	0	5%	1/4W
JR03	1-216-296-91	METAL GLAZE	0	5%	1/4W
JR04	1-216-296-91	METAL GLAZE	0	5%	1/4W
JR05	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR06	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR10	1-216-296-91	METAL GLAZE	0	5%	1/4W
JR11	1-216-296-91	METAL GLAZE	0	5%	1/4W
R01	1-216-031-00	METAL GLAZE	180	5%	1/10W
R02	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R03	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R04	1-216-041-00	METAL GLAZE	470	5%	1/10W
R05	1-216-041-00	METAL GLAZE	470	5%	1/10W
R06	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R07	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R08	1-216-039-00	METAL GLAZE	390	5%	1/10W
R09	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R10	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R11	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R12	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R13	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R14	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R15	1-216-035-00	METAL GLAZE	270	5%	1/10W
R17	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R18	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R19	1-216-242-91	METAL GLAZE	68K	5%	1/4W
R20	1-216-033-00	METAL GLAZE	180	5%	1/10W
R21	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R22	1-216-025-91	METAL GLAZE	100	5%	1/10W
R23	1-218-755-11	METAL CHIP	130K	0.50%	1/10W
R24	1-216-206-00	METAL GLAZE	2.2K	5%	1/4W
R25	1-216-107-00	METAL GLAZE	270K	5%	1/10W
R26	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R27	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R28	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R29	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R30	1-216-198-91	METAL GLAZE	1K	5%	1/4W

IF (KV-29X2A/29X2D/29X2E)

IF (KV-29X2B)

REF.NO.	PART NO.	DESCRIPTION	REMARK
R31	1-216-198-91	METAL GLAZE 1K 5% 1/8W	
R32	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R33	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R34	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R35	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R36	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R37	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R38	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R39	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R40	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R41	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R42	1-216-174-00	METAL GLAZE 100 5% 1/8W	
R43	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R44	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R45	1-216-198-91	METAL GLAZE 1K 5% 1/8W	
R46	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R47	1-216-198-91	METAL GLAZE 1K 5% 1/8W	
R48	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R49	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
R50	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R52	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R57	1-216-295-91	METAL GLAZE 0 5% 1/10W	
R58	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R61	1-216-025-91	METAL GLAZE 100 5% 1/10W	

< VARIABLE RESISTOR >

RV01 1-241-786-11 RES, ADJ, CARBON 22K

1-467-573-13 IF BLOCK (IFB-389FX) (KV-29X2B)

< CAPACITOR >

C101	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C102	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C104	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C111	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C112	1-163-133-00	CERAMIC CHIP 470PF	5%	50V
C113	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V
C114	1-124-925-11	ELECT 2.2MF	20%	50V
C115	1-124-916-11	ELECT 22MF	20%	50V
C116	1-124-916-11	ELECT 22MF	20%	50V
C117	1-163-090-00	CERAMIC CHIP 7PF	0.25PF	50V
C120	1-124-925-11	ELECT 2.2MF	20%	50V
C121	1-124-925-11	ELECT 2.2MF	20%	50V
C122	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V
C123	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C126	1-163-085-00	CERAMIC CHIP 2PF	0.25PF	50V
C128	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V
C131	1-163-113-00	CERAMIC CHIP 68PF	5%	50V
C132	1-163-097-00	CERAMIC CHIP 15PF	5%	50V
C133	1-163-113-00	CERAMIC CHIP 68PF	5%	50V
C134	1-163-239-11	CERAMIC CHIP 33PF	5%	50V
C135	1-124-477-11	ELECT 47MF	20%	16V
C141	1-163-249-11	CERAMIC CHIP 82PF	5%	50V
C143	1-163-251-11	CERAMIC CHIP 100PF	5%	50V
C145	1-124-477-11	ELECT 47MF	20%	16V
C151	1-124-477-11	ELECT 47MF	20%	16V
C152	1-124-477-11	ELECT 47MF	20%	16V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C161	1-124-477-11	ELECT 47MF	20% 16V
C162	1-124-477-11	ELECT 47MF	20% 16V
C173	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C174	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C175	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C177	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C191	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C201	1-164-346-11	CERAMIC CHIP 1MF	16V
C202	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C203	1-124-477-11	ELECT 47MF	20% 16V
C204	1-164-346-11	CERAMIC CHIP 1MF	16V
C205	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C206	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C207	1-164-222-11	CERAMIC CHIP 0.22MF	25V
C208	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C302	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C502	1-124-477-11	ELECT 47MF	20% 16V
C503	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C901	1-124-477-11	ELECT 47MF	20% 16V
C902	1-163-059-91	CERAMIC CHIP 0.01MF	10% 50V

< FILTER >

CF171	1-567-100-00	FILTER, CERAMIC
CF172	1-567-101-11	FILTER, CERAMIC
CF173	1-760-107-21	FILTER, CERAMIC
CF174	1-760-106-21	FILTER, CERAMIC

SWF101	1-579-273-11	FILTER, SURFACE WAVE
SWF103	1-760-244-21	FILTER, SURFACE WAVE

< CONNECTOR >

CN1	1-750-919-11	PIN, CONNECTOR (PC BOARD) 10P
CN2	1-750-919-11	PIN, CONNECTOR (PC BOARD) 10P

< TRIMMER >

CT101	1-760-154-21	TRAP, CERAMIC
CT131	1-409-430-11	TRAP, CERAMIC

< DIODE >

D101	8-719-914-43	DIODE DAN202K
D171	8-719-914-43	DIODE DAN202K
D201	8-719-914-43	DIODE DAN202K

< IC >

IC1	8-759-193-13	IC TDA9815
IC2	8-759-514-54	IC BA7046
IC3	8-752-069-79	IC CXA1875M
IC4	8-759-710-86	IC NJM2233BM

< COIL >

L101	1-408-419-00	INDUCTOR 68UH
L102	1-410-985-11	INDUCTOR CHIP 0.22UH
L131	1-408-407-00	INDUCTOR 6.8UH
L132	1-410-426-21	INDUCTOR 39UH
L142	1-408-409-00	INDUCTOR 10UH
L171	1-408-609-41	INDUCTOR 33UH
L201	1-408-419-00	INDUCTOR 68UH
L501	1-408-411-00	INDUCTOR 15UH
L901	1-408-411-00	INDUCTOR 15UH

IF (KV-29X2B)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< TRANSISTOR >				JR138	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q101	8-729-104-80	TRANSISTOR 2SC3355		JR140	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q102	8-729-901-01	TRANSISTOR DTC144EK		JR141	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q104	8-729-901-01	TRANSISTOR DTC144EK		JR142	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q121	8-729-216-22	TRANSISTOR 2SA1162-G		JR143	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q131	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR145	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q132	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR146	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q141	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR150	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q142	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR152	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q151	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR154	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q152	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR160	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q153	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR161	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q154	8-729-901-01	TRANSISTOR DTC144EK		JR162	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q161	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR166	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q162	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR167	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q171	8-729-216-22	TRANSISTOR 2SA1162-G		R100	1-216-025-00	METAL GLAZE 100 5% 1/10W	
Q174	8-729-901-01	TRANSISTOR DTC144EK		R102	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
Q175	8-729-901-01	TRANSISTOR DTC144EK		R103	1-216-001-00	METAL GLAZE 10 5% 1/10W	
Q176	8-729-901-01	TRANSISTOR DTC144EK		R104	1-216-176-11	METAL GLAZE 120 5% 1/8W	
Q181	8-729-920-74	TRANSISTOR 2SC2412K-QR		R105	1-216-017-00	METAL GLAZE 47 5% 1/10W	
Q191	8-729-216-22	TRANSISTOR 2SA1162-G		R106	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
Q201	8-729-216-22	TRANSISTOR 2SA1162-G		R107	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
< RESISTOR >				R109	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
JR101	1-216-295-91	METAL GLAZE 0 5% 1/10W		R111	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR102	1-216-296-00	METAL GLAZE 0 5% 1/8W		R113	1-216-031-00	METAL GLAZE 180 5% 1/10W	
JR103	1-216-296-00	METAL GLAZE 0 5% 1/8W		R114	1-216-035-00	METAL GLAZE 270 5% 1/10W	
JR104	1-216-295-91	METAL GLAZE 0 5% 1/10W		R115	1-216-035-00	METAL GLAZE 270 5% 1/10W	
JR106	1-216-296-00	METAL GLAZE 0 5% 1/8W		R116	1-216-025-00	METAL GLAZE 100 5% 1/10W	
JR107	1-216-295-91	METAL GLAZE 0 5% 1/10W		R117	1-216-031-00	METAL GLAZE 180 5% 1/10W	
JR109	1-216-295-91	METAL GLAZE 0 5% 1/10W		R118	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
JR110	1-216-295-91	METAL GLAZE 0 5% 1/10W		R120	1-216-180-00	METAL GLAZE 180 5% 1/8W	
JR111	1-216-296-00	METAL GLAZE 0 5% 1/8W		R131	1-216-198-91	METAL GLAZE 1K 5% 1/8W	
JR112	1-216-295-91	METAL GLAZE 0 5% 1/10W		R133	1-216-031-00	METAL GLAZE 180 5% 1/10W	
JR113	1-216-296-00	METAL GLAZE 0 5% 1/8W		R134	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR114	1-216-295-91	METAL GLAZE 0 5% 1/10W		R135	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR115	1-216-295-91	METAL GLAZE 0 5% 1/10W		R136	1-216-041-00	METAL GLAZE 470 5% 1/10W	
JR116	1-216-296-00	METAL GLAZE 0 5% 1/8W		R137	1-216-041-00	METAL GLAZE 470 5% 1/10W	
JR117	1-216-296-00	METAL GLAZE 0 5% 1/8W		R138	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR118	1-216-296-00	METAL GLAZE 0 5% 1/8W		R139	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
JR119	1-216-296-00	METAL GLAZE 0 5% 1/8W		R140	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR120	1-216-295-91	METAL GLAZE 0 5% 1/10W		R142	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR121	1-216-296-00	METAL GLAZE 0 5% 1/8W		R144	1-216-041-00	METAL GLAZE 470 5% 1/10W	
JR122	1-216-296-00	METAL GLAZE 0 5% 1/8W		R145	1-216-041-00	METAL GLAZE 470 5% 1/10W	
JR123	1-216-296-00	METAL GLAZE 0 5% 1/8W		R146	1-216-043-00	METAL GLAZE 560 5% 1/10W	
JR124	1-216-296-00	METAL GLAZE 0 5% 1/8W		R147	1-216-025-00	METAL GLAZE 100 5% 1/10W	
JR125	1-216-295-91	METAL GLAZE 0 5% 1/10W		R148	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR126	1-216-295-91	METAL GLAZE 0 5% 1/10W		R149	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR127	1-216-296-00	METAL GLAZE 0 5% 1/8W		R151	1-216-226-00	METAL GLAZE 15K 5% 1/8W	
JR128	1-216-295-91	METAL GLAZE 0 5% 1/10W		R152	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
JR129	1-216-295-91	METAL GLAZE 0 5% 1/10W		R153	1-216-689-11	METAL GLAZE 39K 5% 1/10W	
JR130	1-216-296-00	METAL GLAZE 0 5% 1/8W		R154	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
JR131	1-216-296-00	METAL GLAZE 0 5% 1/8W		R155	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
JR132	1-216-296-00	METAL GLAZE 0 5% 1/8W		R156	1-216-037-00	METAL GLAZE 330 5% 1/10W	
JR133	1-216-296-00	METAL GLAZE 0 5% 1/8W		R161	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
JR134	1-216-295-91	METAL GLAZE 0 5% 1/10W		R162	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
JR135	1-216-296-00	METAL GLAZE 0 5% 1/8W		R163	1-216-689-11	METAL GLAZE 39K 5% 1/10W	
JR136	1-216-295-91	METAL GLAZE 0 5% 1/10W		R164	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
JR137	1-216-296-00	METAL GLAZE 0 5% 1/8W		R165	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
				R166	1-216-037-00	METAL GLAZE 330 5% 1/10W	
				R167	1-216-073-00	METAL GLAZE 10K 5% 1/10W	

IF (KV-29X2B)

G

The components identified by shading and marked IF are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque IF sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK
R168	1-216-212-00	METAL GLAZE 3.9K 5%	1/8W
R169	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
R171	1-216-045-00	METAL GLAZE 680 5%	1/10W
R177	1-216-025-00	METAL GLAZE 100 5%	1/10W
R178	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R179	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R180	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R181	1-216-041-00	METAL GLAZE 470 5%	1/10W
R182	1-216-041-00	METAL GLAZE 470 5%	1/10W
R183	1-216-192-00	METAL GLAZE 560 5%	1/8W
R184	1-216-043-00	METAL GLAZE 560 5%	1/10W
R185	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
R191	1-216-093-00	METAL GLAZE 68K 5%	1/10W
R192	1-216-093-00	METAL GLAZE 68K 5%	1/10W
R193	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R194	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R195	1-216-216-00	METAL GLAZE 5.6K 5%	1/8W
R201	1-216-198-91	METAL GLAZE 1K 5%	1/8W
R202	1-216-107-00	METAL GLAZE 270K 5%	1/10W
R203	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R204	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R205	1-218-755-11	METAL CHIP 130K 0.50%	1/10W
R206	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R207	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R208	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R209	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R210	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R211	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R301	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R302	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R303	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R306	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R308	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R309	1-216-025-00	METAL GLAZE 100 5%	1/10W
R310	1-216-025-00	METAL GLAZE 100 5%	1/10W

< VARIABLE RESISTOR >

RV111	1-241-786-11	RES, ADJ, CARBON 22K
RV112	1-241-765-11	RES, ADJ, CARBON 22K

< TRANSFORMER >

T111	1-403-686-22	COIL
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*A-1636-009-A G BOARD, COMPLETE

4-382-854-11 SCREW (M3X10), P, SW (+)

< CAPACITOR >

C602	1-165-127-11	CERAMIC 470PF 10%	500V
C603	1-165-127-11	CERAMIC 470PF 10%	500V
C604	1-136-171-00	FILM 0.33MF 5%	50V
C605	1-137-399-11	FILM 0.1MF 5%	50V
C606	1-136-171-00	FILM 0.33MF 5%	50V
C607	1-137-399-11	FILM 0.1MF 5%	50V
C608	1-164-625-11	CERAMIC 680PF 10%	500V
C609	1-129-718-00	FILM 0.022MF 5%	630V
C610	1-126-953-11	ELECT 2200MF 20%	35V
C611	1-126-953-11	ELECT 2200MF 20%	35V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C613	1-128-548-11	ELECT 4700MF 20%	25V
C614	1-128-548-11	ELECT 4700MF 20%	25V
C615	1-110-626-11	ELECT 330MF 20%	160V
C616	1-164-625-11	CERAMIC 680PF 10%	500V
C617	1-136-559-11	MYLAR 0.0047MF 10%	400V
C618	1-104-989-91	FILM 0.0022MF 5%	200V
C619	1-136-165-00	FILM 0.1MF 5%	50V
C620	1-126-967-11	ELECT 47MF 20%	50V
C621	1-126-967-11	ELECT 47MF 20%	50V
C622	1-126-967-11	ELECT 47MF 20%	50V
C623	1-126-967-11	ELECT 47MF 20%	50V
C624	1-126-967-11	ELECT 47MF 20%	50V
C625	1-126-967-11	ELECT 47MF 20%	50V
C626	1-126-967-11	ELECT 47MF 20%	50V
C627	1-126-940-11	ELECT 330MF 20%	25V
C628	1-126-965-11	ELECT 22MF 20%	50V
C629	1-162-599-12	CERAMIC 0.0047MF 250V	
C630	1-162-599-12	CERAMIC 0.0047MF 250V	
C631	1-125-555-11	ELECT 330MF 20%	400V
C633	1-125-555-11	ELECT 330MF 20%	400V
C635	1-136-165-00	FILM 0.1MF 5%	50V
C636	1-136-165-00	FILM 0.1MF 5%	50V
C637	1-126-964-11	ELECT 10MF 20%	50V
C638	1-126-964-11	ELECT 10MF 20%	50V
C639	1-126-964-11	ELECT 10MF 20%	50V
C640	1-126-964-11	ELECT 10MF 20%	50V
C641	1-126-964-11	ELECT 10MF 20%	50V
C642	1-102-002-00	CERAMIC 680PF 10%	500V
C643	1-102-002-00	CERAMIC 680PF 10%	500V
C644	1-136-171-00	FILM 0.33MF 5%	50V
C645	1-136-171-00	FILM 0.33MF 5%	50V
C646	1-136-171-00	FILM 0.33MF 5%	50V
C647	1-136-171-00	FILM 0.33MF 5%	50V
C650	1-126-964-11	ELECT 10MF 20%	50V
C651	1-136-171-00	FILM 0.33MF 5%	50V
C652	1-136-171-00	FILM 0.33MF 5%	50V
C653	1-136-169-00	FILM 0.22MF 5%	50V
C654	1-126-934-11	ELECT 220MF 20%	16V
C660	1-101-001-00	CERAMIC 0.001MF 50V	

< CONNECTOR >

CN006	1-564-516-11	PLUG, CONNECTOR 13P
CN008	1-564-516-11	PLUG, CONNECTOR 13P
CN009	1-564-516-11	PLUG, CONNECTOR 13P
CN0701	1-564-516-11	PLUG, CONNECTOR 13P
CN0722	1-564-516-11	PLUG, CONNECTOR 13P

< DIODE >

D601	8-719-510-53	DIODE D4SB60L
D602	8-719-991-33	DIODE 1SS133T-77
D603	8-719-109-89	DIODE RD5.6ESB2
D605	8-719-047-31	DIODE RBA-402L
D607	8-719-510-12	DIODE D10SC4M
D608	8-719-510-12	DIODE D10SC4M
D609	8-719-047-31	DIODE RBA-402L
D610	8-719-510-64	DIODE S2LA20F
D612	8-719-911-19	DIODE 1SS119-25
D613	8-719-911-19	DIODE 1SS119-25
D614	8-719-911-19	DIODE 1SS119-25
D615	8-719-911-19	DIODE 1SS119-25
D616	8-719-911-19	DIODE 1SS119-25
D617	8-719-911-19	DIODE 1SS119-25
D618	8-719-911-19	DIODE 1SS119-25
D619	8-719-911-19	DIODE 1SS119-25
D620	8-719-911-19	DIODE 1SS119-25
D621	8-719-911-19	DIODE 1SS119-25
D622	8-719-510-64	DIODE S2LA20F

The components identified by shading and marked .F. are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque .F. sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D623	8-719-510-64	DIODE S2LA20F		R604	1-216-369-00	METAL OXIDE	1 5% 2W F
D624	8-719-312-39	DIODE R2K-V1		R605	1-247-891-00	CARBON	330K 5% 1/4W
D625	8-719-911-19	DIODE 1SS119-25		R606	1-247-891-00	CARBON	330K 5% 1/4W
D626	8-719-911-19	DIODE 1SS119-25		R607	1-216-369-00	METAL OXIDE	1 5% 2W F
D627	8-719-911-19	DIODE 1SS119-25		R608	1-247-887-00	CARBON	220K 5% 1/4W
D628	8-719-911-19	DIODE 1SS119-25		R609	1-249-429-11	CARBON	10K 5% 1/4W F
D630	8-719-991-33	DIODE 1SS133T-77		R610	1-249-419-11	CARBON	1.5K 5% 1/4W F
D631	8-719-991-33	DIODE 1SS133T-77		R611	1-205-949-11	WIREWOUND	1.8 5% 10W
D632	8-719-991-33	DIODE 1SS133T-77		R612	1-205-949-11	WIREWOUND	1.8 5% 10W
D633	8-719-991-33	DIODE 1SS133T-77		R613	1-244-943-91	CARBON	1M 5% 1/2W
D634	8-719-991-33	DIODE 1SS133T-77		R614	1-218-265-91	METAL	8.2K 5% 1W
< FERRITE BEAD >				R621	1-249-417-11	CARBON	1K 5% 1/4W F
FB601	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		R622	1-249-430-11	CARBON	12K 5% 1/4W
FB602	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		R623	1-249-436-11	CARBON	39K 5% 1/4W
FB603	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		R624	1-249-425-11	CARBON	4.7K 5% 1/4W
FB604	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		R625	1-247-815-91	CARBON	220 5% 1/4W
< IC >				R626	1-247-863-91	CARBON	22K 5% 1/4W
IC601	1-810-051-11	POWER MODULE DM-48		R627	1-247-815-91	CARBON	220 5% 1/4W
IC602	1-8749-010-64	PHOTO COUPLER PC173P2		R628	1-249-410-11	CARBON	270 5% 1/4W
< COIL >				R630	1-249-429-11	CARBON	10K 5% 1/4W
L601	1-412-525-31	INDUCTOR 10UH		R631	1-215-477-00	METAL	220K 1% 1/4W
L602	1-412-525-31	INDUCTOR 10UH		R632	1-249-417-11	CARBON	1K 5% 1/4W
L603	1-412-525-31	INDUCTOR 10UH		R633	1-249-429-11	CARBON	10K 5% 1/4W
L605	1-412-523-11	INDUCTOR 6.8UH		R634	1-247-895-91	CARBON	470K 5% 1/4W
L606	1-412-523-11	INDUCTOR 6.8UH		R635	1-249-417-11	CARBON	1K 5% 1/4W
< TRANSFORMER >				R636	1-207-905-00	WIREWOUND	0.27 10% 2W F
LF601	1-424-436-11	TRANSFORMER, LINE FILTER		R637	1-249-389-11	CARBON	4.7 5% 1/4W F
< IC LINK >				R638	1-249-425-11	CARBON	4.7K 5% 1/4W
PS601	1-532-686-91	LINK, IC (ICP-N75) 2.7A		R639	1-247-791-91	CARBON	22 5% 1/4W
PS602	1-532-686-91	LINK, IC (ICP-N75) 2.7A		R640	1-247-791-91	CARBON	22 5% 1/4W
PS604	1-532-686-91	LINK, IC (ICP-N75) 2.7A		R641	1-247-791-91	CARBON	22 5% 1/4W
PS605	1-532-845-21	LINK, IC (PRF4080) 4A		R642	1-247-791-91	CARBON	22 5% 1/4W
< TRANSISTOR >				R644	1-249-425-11	CARBON	4.7K 5% 1/4W
Q601	8-729-032-87	TRANSISTOR 2SC4834NP-F09		R645	1-249-415-11	CARBON	680 5% 1/4W
Q602	8-729-032-87	TRANSISTOR 2SC4834NP-F09		R646	1-249-403-11	CARBON	68 5% 1/4W
Q603	8-729-119-78	TRANSISTOR 2SC2785-HFE		R651	1-215-880-00	METAL OXIDE	10 5% 2W F
Q604	8-729-200-21	TRANSISTOR 2SC2500-B		R652	1-247-891-00	CARBON	330K 5% 1/4W
Q605	8-729-173-38	TRANSISTOR 2SA733-K		R653	1-247-891-00	CARBON	330K 5% 1/4W
Q606	8-729-119-78	TRANSISTOR 2SC2785-HFE		R654	1-247-891-00	CARBON	330K 5% 1/4W
Q607	8-729-029-56	TRANSISTOR DTA144ESA		R655	1-247-891-00	CARBON	330K 5% 1/4W
Q608	8-729-119-78	TRANSISTOR 2SC2785-HFE		R656	1-249-439-11	CARBON	68K 5% 1/4W
Q610	8-729-173-38	TRANSISTOR 2SA733-K		R657	1-249-429-11	CARBON	10K 5% 1/4W
Q611	8-729-119-78	TRANSISTOR 2SC2785-HFE		R658	1-249-421-11	CARBON	2.2K 5% 1/4W
Q612	8-729-173-38	TRANSISTOR 2SA733-K		R659	1-249-425-11	CARBON	4.7K 5% 1/4W
Q613	8-729-030-03	TRANSISTOR DTC144ESA		R660	1-249-429-11	CARBON	10K 5% 1/4W
Q614	8-729-029-56	TRANSISTOR DTA144ESA		R661	1-249-421-11	CARBON	2.2K 5% 1/4W
Q615	8-729-200-21	TRANSISTOR 2SC2500-B		R662	1-249-421-11	CARBON	2.2K 5% 1/4W
Q616	8-729-030-03	TRANSISTOR DTC144ESA		R663	1-249-429-11	CARBON	10K 5% 1/4W
Q617	8-729-029-56	TRANSISTOR DTA144ESA		R664	1-249-429-11	CARBON	10K 5% 1/4W
< RESISTOR >				R665	1-249-425-11	CARBON	4.7K 5% 1/4W
R601	1-202-933-61	FUSIBLE 0.1 10% 1/2W F		< RELAY >			
R602	1-247-891-00	CARBON 330K 5% 1/4W		RY601	1-515-720-31	RELAY	
R603	1-247-891-00	CARBON 330K 5% 1/4W		< TRANSFORMER >			
				T601	1-429-255-11	TRANSFORMER, CONVERTER (RTS)	
				T602	1-429-254-11	TRANSFORMER, CONVERTER (PRT)	

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The components identified by shading and marked **r** are critical for safety.
Replace only with the part number specified.

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Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< THERMISTOR >				Q704	8-729-326-11	TRANSISTOR 2SC2611	
THP601	1-809-827-11	THERMISTOR, POSITIVE		Q705	8-729-326-11	TRANSISTOR 2SC2611	
< VARISTOR >				Q706	8-729-326-11	TRANSISTOR 2SC2611	
VDR601	1-810-977-21	VARISTOR ERZV10D621		Q707	8-729-200-17	TRANSISTOR 2SA1091-O	
*****				Q708	8-729-200-17	TRANSISTOR 2SA1091-O	
*A-1638-070-A	C BOARD, COMPLETE			Q709	8-729-200-17	TRANSISTOR 2SA1091-O	
	*****			Q710	8-729-119-78	TRANSISTOR 2SC2785-HFE	
4-382-854-11	SCREW (M3X10), P, SW (+)			Q711	8-729-119-78	TRANSISTOR 2SC2785-HFE	
< CAPACITOR >				Q712	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C701	1-162-114-00	CERAMIC	0.0047MF	Q714	8-729-255-12	TRANSISTOR 2SC2551-O	
C703	1-107-651-11	ELECT	4.7MF	Q715	8-729-173-38	TRANSISTOR 2SA733-K	
C709	1-102-978-00	CERAMIC	220PF	< RESISTOR >			
C711	1-101-880-00	CERAMIC	47PF	R701	1-202-846-00	SOLID	470K 20% 1/2W
C712	1-102-978-00	CERAMIC	220PF	R702	1-202-838-00	SOLID	100K 20% 1/2W
C713	1-102-980-00	CERAMIC	270PF	R703	1-202-549-00	SOLID	100 20% 1/2W
C714	1-102-980-00	CERAMIC	270PF	R705	1-249-377-11	CARBON	0.47 5% 1/4W F
C716	1-128-526-11	ELECT	100MF	R706	1-249-377-11	CARBON	0.47 5% 1/4W F
C720	1-162-116-00	CERAMIC	680PF	R707	1-249-416-11	CARBON	820 5% 1/4W
< CONNECTOR >				R708	1-249-416-11	CARBON	820 5% 1/4W
CN0003	1-695-915-11	TAB (CONTACT)		R709	1-249-416-11	CARBON	820 5% 1/4W
CN0004	1-695-915-11	TAB (CONTACT)		R710	1-215-922-11	METAL OXIDE	6.8K 5% 3W F
CN0411	*1-568-882-11	PIN, CONNECTOR 7P		R711	1-202-549-00	SOLID	100 20% 1/2W
CN0421	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P		R712	1-215-922-11	METAL OXIDE	6.8K 5% 3W F
< DIODE >				R713	1-202-549-00	SOLID	100 20% 1/2W
D701	8-719-991-33	DIODE 1SS133T-77		R714	1-215-922-11	METAL OXIDE	6.8K 5% 3W F
D702	8-719-991-33	DIODE 1SS133T-77		R715	1-202-549-00	SOLID	100 20% 1/2W
D703	8-719-991-33	DIODE 1SS133T-77		R716	1-249-405-11	CARBON	100 5% 1/4W F
D704	8-719-991-33	DIODE 1SS133T-77		R717	1-249-405-11	CARBON	100 5% 1/4W F
D705	8-719-991-33	DIODE 1SS133T-77		R718	1-249-405-11	CARBON	100 5% 1/4W F
D706	8-719-991-33	DIODE 1SS133T-77		R725	1-249-421-11	CARBON	2.2K 5% 1/4W
D707	8-719-991-33	DIODE 1SS133T-77		R726	1-249-421-11	CARBON	2.2K 5% 1/4W
D708	8-719-991-33	DIODE 1SS133T-77		R727	1-249-421-11	CARBON	2.2K 5% 1/4W
D709	8-719-991-33	DIODE 1SS133T-77		R728	1-249-407-11	CARBON	150 5% 1/4W
D714	8-719-109-97	DIODE RD6.8ES-B2		R729	1-249-407-11	CARBON	150 5% 1/4W
D715	8-719-018-82	DIODE RGP02-20EL-6394		R730	1-249-407-11	CARBON	150 5% 1/4W
< CRT SOCKET >				R731	1-247-791-91	CARBON	22 5% 1/4W
J701	1-526-990-22	SOCKET, CRT		R732	1-247-791-91	CARBON	22 5% 1/4W
< COIL >				R733	1-247-791-91	CARBON	22 5% 1/4W
L701	1-408-607-31	INDUCTOR	22UH	R734	1-202-549-00	SOLID	100 20% 1/2W
L702	1-408-607-31	INDUCTOR	22UH	R738	1-249-401-11	CARBON	47 5% 1/4W
L703	1-408-409-00	INDUCTOR	10UH	R739	1-249-401-11	CARBON	47 5% 1/4W
L704	1-408-607-31	INDUCTOR	22UH	R740	1-249-401-11	CARBON	47 5% 1/4W
L705	1-408-409-00	INDUCTOR	10UH	R743	1-249-435-11	CARBON	33K 5% 1/4W
L706	1-408-607-31	INDUCTOR	22UH	R747	1-216-489-11	METAL OXIDE	27K 5% 3W F
L707	1-408-409-00	INDUCTOR	10UH	R749	1-216-489-11	METAL OXIDE	27K 5% 3W F
L709	1-408-409-00	INDUCTOR	10UH	R751	1-216-489-11	METAL OXIDE	27K 5% 3W F
< TRANSISTOR >				R753	1-249-429-11	CARBON	10K 5% 1/4W
Q701	8-729-326-11	TRANSISTOR 2SC2611		R758	1-247-807-31	CARBON	100 5% 1/4W
Q702	8-729-326-11	TRANSISTOR 2SC2611		R759	1-247-807-31	CARBON	100 5% 1/4W
Q703	8-729-326-11	TRANSISTOR 2SC2611		R760	1-247-807-31	CARBON	100 5% 1/4W
< VARIABLE RESISTOR >				R767	1-249-437-11	CARBON	47K 5% 1/4W
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M		R768	1-249-417-11	CARBON	1K 5% 1/4W
RV702	1-241-714-11	RES, ADJ, METAL FILM 110M					



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1640-236-A	D BOARD, COMPLETE *****		D872	8-719-914-43	DIODE DAN202K	
				D874	8-719-914-42	DIODE DA204K	
	4-200-399-01	SPACER, IC			< FERRITE BEAD >		
	4-382-854-11	SCREW (M3X10), P, SW (+)		FB801	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
	< CAPACITOR >			FB802	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
C801	1-123-024-21	ELECT 33MF	160V	FB803	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
C802	1-136-207-11	FILM 0.047MF	10% 250V		< IC >		
C804	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	IC801	8-759-103-93	IC μ PC393C	
C805	1-102-030-00	CERAMIC 330PF	10% 500V		< COIL >		
C808	1-162-116-00	CERAMIC 680PF	10% 2KV	L801	1-459-123-00	COIL, DUST CORE (PAC)	
C809	1-162-116-00	CERAMIC 680PF	10% 2KV	L802	1-459-123-00	COIL, DUST CORE (PAC)	
C810	1-106-367-00	MYLAR 0.01MF	10% 400V	L803	1-459-123-00	COIL, DUST CORE (PAC)	
C811	1-115-471-11	FILM 17000PF	3% 1.2KV	L806	1-459-592-11	COIL (WITH CORE) (PMC)	
C812	1-129-720-00	FILM 0.033MF	5% 630V	L811	1-459-104-00	COIL, WITH CORE	
C813	1-109-961-11	FILM 0.75MF	5% 400V	L813	1-459-104-00	COIL, WITH CORE	
C814	1-129-702-00	FILM 0.001MF	10% 400V	L814	1-422-613-11	COIL, AIR CORE	
C816	1-109-961-11	FILM 0.75MF	5% 400V	L815	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
C817	1-136-759-11	FILM 0.039MF	5% 630V	L816	1-408-947-00	INDUCTOR 2.2MMH	
C819	1-137-104-11	FILM 0.033MF	10% 250V		< TRANSISTOR >		
C822	1-126-967-11	ELECT 47MF	20% 50V	Q801	8-729-119-80	TRANSISTOR 2SC2688-LK	
C823	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q802	8-729-821-07	TRANSISTOR 2SC3997CA	
C824	1-162-117-00	CERAMIC 100PF	10% 500V	Q803	8-729-931-45	TRANSISTOR IRF614	
C825	1-126-964-11	ELECT 10MF	20% 50V		< RESISTOR >		
C827	1-102-228-00	CERAMIC 470PF	10% 500V	JR502	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C835	1-107-655-11	ELECT 47MF	20% 250V	JR503	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C836	1-102-228-00	CERAMIC 470PF	10% 500V	JR504	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C837	1-102-228-00	CERAMIC 470PF	10% 500V	R802	1-215-916-00	METAL OXIDE 680 5% 3W F	
C838	1-102-228-00	CERAMIC 470PF	10% 500V	R803	1-215-916-00	METAL OXIDE 680 5% 3W F	
C839	1-126-941-11	ELECT 470MF	20% 25V	R804	1-215-916-00	METAL OXIDE 680 5% 3W F	
C840	1-126-941-11	ELECT 470MF	20% 25V	R805	1-215-923-00	METAL OXIDE 10K 5% 3W F	
C841	1-106-375-12	MYLAR 0.022MF	10% 250V	R806	1-216-037-00	METAL GLAZE 330 5% 1/10W	
C842	1-136-559-11	MYLAR 0.0047MF	10% 400V	R807	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C873	1-162-115-00	CERAMIC 330PF	10% 2KV	R808	1-216-385-11	METAL OXIDE 0.47 5% 3W F	
C874	1-164-645-11	CERAMIC 1000PF	10% 500V	R809	1-215-880-00	METAL OXIDE 10 5% 2W F	
C875	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	R810	1-215-914-11	METAL OXIDE 330 5% 3W F	
C892	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	R811	1-216-434-11	METAL OXIDE 1.8K 5% 1W F	
C893	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	R817	1-202-972-61	FUSIBLE 1 5% 1/4W F	
	< CONNECTOR >			R818	1-249-377-11	CARBON 0.47 5% 1/4W F	
CN0006	1-695-915-11	TAB (CONTACT)		R819	1-249-377-11	CARBON 0.47 5% 1/4W F	
CN0009	1-568-878-51	PIN, CONNECTOR 3P		R820	1-214-907-00	METAL 56K 1% 1/2W	
CN0501	*1-564-516-11	PLUG, CONNECTOR 13P		R821	1-249-428-11	CARBON 8.2K 5% 1/4W	
CN0503	*1-564-511-11	PLUG, CONNECTOR 8P		R823	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
CN0504	*1-564-511-11	PLUG, CONNECTOR 8P		R835	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
CN0505	1-764-607-11	CONNECTOR, BOARD TO BOARD 8P		R836	1-216-295-00	CONDUCTOR, CHIP (2012)	
CN0521	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P		R837	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
DY1	*1-580-798-11	CONNECTOR PIN (DY) 6P		R842	1-249-887-11	CARBON 33 5% 1/4W F	
	< DIODE >			R843	1-202-822-00	SOLID 2.2K 20% 1/2W	
D802	8-719-979-99	DIODE ERD08M-15		R844	1-249-424-11	CARBON 3.9K 5% 1/4W	
D803	8-719-043-14	DIODE ESAD39M-06C		R845	1-216-099-00	METAL GLAZE 120K 5% 1/10W	
D804	8-719-971-20	DIODE ERC38-06		R851	1-216-374-00	METAL OXIDE 2.7 5% 2W F	
D805	8-719-908-03	DIODE GP08D		R854	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
D806	8-719-908-03	DIODE GP08D		R855	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
D811	8-719-302-43	DIODE EL1Z		R856	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
D812	8-719-510-26	DIODE D1NL20		R857	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
D813	8-719-510-26	DIODE D1NL20		R858	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
D815	8-719-110-13	DIODE RD9.1ESB2					

The components identified by shading and marked * are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque * sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

D **VM** **H1**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R859	1-202-822-00	SOLID 2.2K 20% 1/2W		Q1702	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R874	1-216-295-00	METAL GLAZE 0 5% 1/10W		Q1703	8-729-017-05	TRANSISTOR 2SA1837	
R895	1-215-866-11	METAL OXIDE 330 5% 1W F		Q1704	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R896	1-216-295-00	METAL GLAZE 0 5% 1/10W		Q1705	8-729-173-38	TRANSISTOR 2SA733-K	
R897	1-216-109-00	METAL GLAZE 330K 5% 1/10W		Q1706	8-729-017-06	TRANSISTOR 2SC4793	
R898	1-216-295-00	METAL GLAZE 0 5% 1/10W		Q1707	8-729-255-12	TRANSISTOR 2SC2551-O	
R899	1-216-103-00	METAL GLAZE 180K 5% 1/10W		Q1840	8-729-119-78	TRANSISTOR 2SC2785-HFE	
< TRANSFORMER >				Q1841	8-729-017-06	TRANSISTOR 2SC4793	
T801	1-427-762-11	TRANSFORMER, FERRITE (HDT)		R1701	1-249-417-11	CARBON 1K 5% 1/4W	
T803	1-427-776-11	TRANSFORMER, FERRITE (PMT)		R1702	1-249-417-11	CARBON 1K 5% 1/4W	
T804	1-426-940-11	HLT		R1703	1-249-421-11	CARBON 2.2K 5% 1/4W	
T805	1-453-187-11	TRANSFORMER ASSY. FLYBACK (WX-2661/DZE)		R1704	1-249-415-11	CARBON 680 5% 1/4W	
T806	1-413-059-00	TRANSFORMER, FERRITE (DPT)		R1705	1-247-791-91	CARBON 22 5% 1/4W	
*****				R1706	1-247-791-91	CARBON 22 5% 1/4W	
*A-1644-064-A	VM BOARD, COMPLETE	*****		R1707	1-247-807-31	CARBON 100 5% 1/4W	
*4-368-683-21	SPRING, TRANSISTOR			R1708	1-249-410-11	CARBON 270 5% 1/4W	
< CAPACITOR >				R1709	1-249-401-11	CARBON 47 5% 1/4W	
C1701	1-126-933-11	ELECT 100MF 20% 16V		R1710	1-249-401-11	CARBON 47 5% 1/4W	
C1702	1-102-074-00	CERAMIC 0.001MF 10% 50V		R1711	1-249-429-11	CARBON 10K 5% 1/4W	
C1703	1-126-933-11	ELECT 100MF 20% 16V		R1712	1-260-311-11	CARBON 39 5% 1/2W	
C1704	1-126-933-11	ELECT 100MF 20% 16V		R1713	1-249-384-11	CARBON 1.8 5% 1/4W F	
C1705	1-107-638-11	ELECT 33MF 20% 160V		R1714	1-249-414-11	CARBON 560 5% 1/4W F	
C1706	1-104-999-11	FILM 0.1MF 5% 200V		R1715	1-249-432-11	CARBON 18K 5% 1/4W	
C1707	1-104-989-91	FILM 0.0022MF 5% 200V		R1716	1-249-417-11	CARBON 1K 5% 1/4W F	
C1708	1-137-364-11	FILM 0.001MF 5% 50V		R1717	1-216-476-11	METAL OXIDE 180 5% 3W F	
C1709	1-137-364-11	FILM 0.001MF 5% 50V		R1718	1-249-432-11	CARBON 18K 5% 1/4W	
C1720	1-107-667-11	ELECT 2.2MF 20% 160V		R1719	1-249-384-11	CARBON 1.8 5% 1/4W F	
C1721	1-104-989-91	FILM 0.0022MF 5% 200V		R1720	1-249-400-11	CARBON 39 5% 1/4W F	
C1722	1-128-581-11	ELECT 4.7MF 20% 100V		R1721	1-249-414-11	CARBON 560 5% 1/4W	
C1723	1-161-830-00	CERAMIC 0.0047MF 500V		R1722	1-249-401-11	CARBON 47 5% 1/4W	
C1841	1-130-481-00	FILM 0.0068MF 5% 50V		R1723	1-249-426-11	CARBON 5.6K 5% 1/4W	
C1844	1-106-367-00	MYLAR 0.01MF 10% 400V		R1841	1-249-437-11	CARBON 47K 5% 1/4W	
C1845	1-106-220-00	MYLAR 0.1MF 10% 100V		R1842	1-247-764-11	CARBON 10K 5% 1/2W	
< CONNECTOR >				R1843	1-249-421-11	CARBON 2.2K 5% 1/4W	
CN1015	*1-568-881-51	PIN, CONNECTOR 6P		R1844	1-249-421-11	CARBON 2.2K 5% 1/4W	
NA1	1-774-418-11	CONNECTOR, BOARD TO BOARD 8P		R1847	1-249-887-11	CARBON 33 5% 1/4W F	
< DIODE >				R1848	1-215-875-11	METAL OXIDE 10K 5% 1W F	
D1701	8-719-991-33	DIODE 1SS133T-77		R1849	1-247-764-11	CARBON 10K 5% 1/2W	
D1702	8-719-110-88	DIODE RD39ES-B2		*****			
D1703	8-719-110-88	DIODE RD39ES-B2		*A-1646-098-A	H1 BOARD, COMPLETE	*****	
D1840	8-719-302-43	DIODE EL1Z		1-568-678-11	TERMINAL BLOCK, S 3P		
D1841	8-719-991-33	DIODE 1SS133T-77		1-764-606-11	JACK		
< COIL >				< CAPACITOR >			
L1701	1-408-409-00	INDUCTOR 10UH		C083	1-101-005-00	CERAMIC 0.022MF 50V	
L1702	1-408-403-00	INDUCTOR 3.3UH		C087	1-101-005-00	CERAMIC 0.022MF 50V	
L1703	1-408-409-00	INDUCTOR 10UH		< CONNECTOR >			
L1841	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE		CN1113	*1-568-879-11	PIN, CONNECTOR 4P	
L1843	1-459-104-00	COIL, WITH CORE		CN1123	*1-564-512-11	PLUG, CONNECTOR 9P	
< TRANSISTOR >				< COIL >			
Q1701	8-729-119-78	TRANSISTOR 2SC2785-HFE		L081	1-408-409-00	INDUCTOR 10UH	
				L082	1-408-409-00	INDUCTOR 10UH	

H1	H2	J
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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< RESISTOR >							
R081	1-249-429-11	CARBON 10K 5% 1/4W		C913	1-163-129-00	CERAMIC CHIP 330PF 5% 50V	
R082	1-249-425-11	CARBON 4.7K 5% 1/4W		C914	1-163-129-00	CERAMIC CHIP 330PF 5% 50V	
R083	1-249-421-11	CARBON 2.2K 5% 1/4W		C915	1-163-129-00	CERAMIC CHIP 330PF 5% 50V	
R084	1-249-419-11	CARBON 1.5K 5% 1/4W		C916	1-163-011-11	CERAMIC CHIP 0.0015MF 10% 50V	
R085	1-249-419-11	CARBON 1.5K 5% 1/4W		C917	1-163-011-11	CERAMIC CHIP 0.0015MF 10% 50V	
< SWITCH >				C922	1-126-967-11	ELECT 47MF 20% 16V	
S081	1-571-532-21	SWITCH, TACTIL		C923	1-164-346-11	CERAMIC CHIP 1MF 16V	
S082	1-571-532-21	SWITCH, TACTIL		C924	1-126-967-11	ELECT 47MF 20% 16V	
S083	1-571-532-21	SWITCH, TACTIL		C925	1-126-967-11	ELECT 47MF 20% 16V	
*****				C926	1-164-346-11	CERAMIC CHIP 1MF 16V	
*A-1646-099-A H2 BOARD, COMPLETE				C928	1-126-967-11	ELECT 47MF 20% 16V	
*****				C929	1-126-967-11	ELECT 47MF 20% 16V	
*4-374-987-01 GUIDE, LIGHT				C930	1-126-967-11	ELECT 47MF 20% 16V	
4-381-686-01 BRACKET (B), LIGHT GUIDE				C931	1-164-346-11	CERAMIC CHIP 1MF 16V	
< CONNECTOR >				C932	1-164-346-11	CERAMIC CHIP 1MF 16V	
CN1214	*1-564-511-11	PLUG, CONNECTOR 8P		< CONNECTOR >			
< DIODE >				CN0806	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
D092	8-719-948-31	DIODE LD-201VR		CN0807	1-695-300-11	CONNECTOR, BOARD TO BOARD 21P	
	*4-201-076-01	HOLDER, LED ;D092		CN0823	1-564-524-11	PLUG, CONNECTOR 9P	
D093	8-719-948-31	DIODE LD-201VR		CN0824	*1-564-519-11	PLUG, CONNECTOR 4P	
	*4-201-076-01	HOLDER, LED ;D093		CN0825	*1-564-519-11	PLUG, CONNECTOR 4P	
D094	8-719-948-31	DIODE LD-201VR		< DIODE >			
	*4-201-076-01	HOLDER, LED ;D094		D401	8-719-923-60	DIODE MTZJ-T-77-9.1A	
< IC >				D403	8-719-923-60	DIODE MTZJ-T-77-9.1A	
IC091	8-741-810-11	ELEMENT, RAY-CATCHER SBX1810-11		D405	8-719-923-60	DIODE MTZJ-T-77-9.1A	
< RESISTOR >				D406	8-719-923-60	DIODE MTZJ-T-77-9.1A	
R091	1-249-413-11	CARBON 470 5% 1/4W		D407	8-719-923-60	DIODE MTZJ-T-77-9.1A	
*****				D903	8-719-923-60	DIODE MTZJ-T-77-9.1A	
*A-1651-080-A J BOARD, COMPLETE				D904	8-719-923-60	DIODE MTZJ-T-77-9.1A	
*****				D907	8-719-923-60	DIODE MTZJ-T-77-9.1A	
< CAPACITOR >				D908	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C295	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V		D909	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C296	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V		D910	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C401	1-164-005-11	CERAMIC CHIP 0.47MF 16V		D911	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C402	1-126-933-11	ELECT 100MF 20% 16V		D913	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C403	1-164-005-11	CERAMIC CHIP 0.47MF 16V		D914	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C410	1-126-966-11	ELECT 33MF 20% 50V		D915	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C421	1-126-967-11	ELECT 47MF 20% 50V		D916	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C422	1-126-967-11	ELECT 47MF 20% 50V		D917	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C423	1-163-031-11	CERAMIC CHIP 0.01MF 50V		D924	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C424	1-163-129-00	CERAMIC CHIP 330PF 5% 50V		D925	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C425	1-163-129-00	CERAMIC CHIP 330PF 5% 50V		D926	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C426	1-126-967-11	ELECT 47MF 20% 16V		D927	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C427	1-164-346-11	CERAMIC CHIP 1MF 16V		D928	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C428	1-164-346-11	CERAMIC CHIP 1MF 16V		D930	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C429	1-104-661-91	ELECT 330MF 20% 16V		D931	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C906	1-101-004-00	CERAMIC 0.01MF 50V		< IC >			
C910	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V		IC401	8-752-068-46	IC CXAL855S	
C911	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V		IC402	8-759-073-00	IC TEA2114	
C912	1-163-129-00	CERAMIC CHIP 330PF 5% 50V		< SOCKET >			
				J291	1-537-505-11	TERMINAL BOARD (2P)	
				J903	1-561-534-41	SOCKET, PIN 21P	
				J905	1-695-293-11	SOCKET 21P	
				< TRANSISTOR >			
				Q401	8-729-920-74	TRANSISTOR 2SC2412K-QR	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q402	8-729-920-74	TRANSISTOR 2SC2412K-QR		R436	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q403	8-729-920-74	TRANSISTOR 2SC2412K-QR		R437	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q404	8-729-920-74	TRANSISTOR 2SC2412K-QR		R438	1-216-296-91	METAL GLAZE 0 5%	1/8W
				R439	1-216-296-91	METAL GLAZE 0 5%	1/8W
	< RESISTOR >						
JR270	1-216-295-00	METAL GLAZE 0 5%	1/10W	R440	1-216-296-91	METAL GLAZE 0 5%	1/8W
JR272	1-216-295-00	METAL GLAZE 0 5%	1/10W	R911	1-216-022-00	METAL GLAZE 75 5%	1/10W
JR274	1-216-295-00	METAL GLAZE 0 5%	1/10W	R918	1-216-171-00	METAL GLAZE 75 5%	1/8W
JR276	1-216-295-00	METAL GLAZE 0 5%	1/10W	R921	1-216-022-00	METAL GLAZE 75 5%	1/10W
JR278	1-216-296-91	METAL GLAZE 0 5%	1/8W	R922	1-216-073-00	METAL GLAZE 10K 5%	1/10W
JR279	1-216-296-91	METAL GLAZE 0 5%	1/8W	R923	1-216-039-00	METAL GLAZE 390 5%	1/10W
JR287	1-216-296-91	METAL GLAZE 0 5%	1/8W	R924	1-216-039-00	METAL GLAZE 390 5%	1/10W
JR297	1-216-296-91	METAL GLAZE 0 5%	1/8W	R925	1-216-089-00	METAL GLAZE 47K 5%	1/10W
JR298	1-216-296-91	METAL GLAZE 0 5%	1/8W	R926	1-216-039-00	METAL GLAZE 390 5%	1/10W
JR401	1-216-295-00	METAL GLAZE 0 5%	1/10W	R927	1-216-039-00	METAL GLAZE 390 5%	1/10W
JR402	1-216-295-00	METAL GLAZE 0 5%	1/10W	R928	1-216-089-00	METAL GLAZE 47K 5%	1/10W
JR403	1-216-295-00	METAL GLAZE 0 5%	1/10W	R929	1-216-063-91	METAL GLAZE 3.9K 5%	1/10W
JR404	1-216-295-00	METAL GLAZE 0 5%	1/10W	R930	1-216-113-00	METAL GLAZE 470K 5%	1/10W
JR405	1-216-295-00	METAL GLAZE 0 5%	1/10W	R931	1-216-063-91	METAL GLAZE 3.9K 5%	1/10W
JR406	1-216-295-00	METAL GLAZE 0 5%	1/10W	R932	1-216-113-00	METAL GLAZE 470K 5%	1/10W
JR407	1-216-295-00	METAL GLAZE 0 5%	1/10W	R933	1-216-073-00	METAL GLAZE 10K 5%	1/10W
JR408	1-216-295-00	METAL GLAZE 0 5%	1/10W	R934	1-216-063-91	METAL GLAZE 3.9K 5%	1/10W
JR901	1-216-295-00	METAL GLAZE 0 5%	1/10W	R935	1-216-022-00	METAL GLAZE 75 5%	1/10W
JR905	1-216-296-91	METAL GLAZE 0 5%	1/8W	R936	1-216-171-00	METAL GLAZE 75 5%	1/8W
JR907	1-216-296-91	METAL GLAZE 0 5%	1/8W	R937	1-216-113-00	METAL GLAZE 470K 5%	1/10W
JR908	1-216-296-91	METAL GLAZE 0 5%	1/8W	R938	1-216-039-00	METAL GLAZE 390 5%	1/10W
JR909	1-216-295-00	METAL GLAZE 0 5%	1/10W	R939	1-216-039-00	METAL GLAZE 390 5%	1/10W
JR910	1-216-296-91	METAL GLAZE 0 5%	1/8W	R940	1-216-063-91	METAL GLAZE 3.9K 5%	1/10W
JR911	1-216-295-00	METAL GLAZE 0 5%	1/10W	R941	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R283	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R942	1-216-039-00	METAL GLAZE 390 5%	1/10W
R284	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R943	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R291	1-216-190-00	METAL GLAZE 470 5%	1/8W	R944	1-216-039-00	METAL GLAZE 390 5%	1/10W
R292	1-216-190-00	METAL GLAZE 470 5%	1/8W	R945	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R401	1-216-158-00	METAL GLAZE 22 5%	1/8W	R959	1-216-674-11	METAL CHIP 9.1K 0.50%	1/10W
R403	1-216-025-00	METAL GLAZE 100 5%	1/10W	R960	1-216-674-11	METAL CHIP 9.1K 0.50%	1/10W
R404	1-216-158-00	METAL GLAZE 22 5%	1/8W	R968	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R405	1-216-025-00	METAL GLAZE 100 5%	1/10W	R969	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R406	1-216-158-00	METAL GLAZE 22 5%	1/8W	R970	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R407	1-216-025-00	METAL GLAZE 100 5%	1/10W	R977	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R410	1-216-174-00	METAL GLAZE 100 5%	1/8W	*****			
R411	1-216-174-00	METAL GLAZE 100 5%	1/8W				
R412	1-216-022-00	METAL GLAZE 75 5%	1/10W				
R413	1-216-022-00	METAL GLAZE 75 5%	1/10W				
R414	1-216-022-00	METAL GLAZE 75 5%	1/10W				
R416	1-216-113-00	METAL GLAZE 470K 5%	1/10W				
R417	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W				
R419	1-216-113-00	METAL GLAZE 470K 5%	1/10W				
R420	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W				
R421	1-216-171-00	METAL GLAZE 75 5%	1/8W				
R423	1-216-015-00	METAL GLAZE 39 5%	1/10W				
R424	1-216-174-00	METAL GLAZE 100 5%	1/8W				
R425	1-216-174-00	METAL GLAZE 100 5%	1/8W				
R428	1-249-393-11	CARBON 10 5%	1/4W F				
R429	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W				
R430	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W				
R431	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W				
R432	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W				
R433	1-216-296-91	METAL GLAZE 0 5%	1/8W				
R434	1-216-049-00	METAL GLAZE 1K 5%	1/10W				
R435	1-216-049-00	METAL GLAZE 1K 5%	1/10W				

The components identified by shading and marked **CR** are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque **CR** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
MISCELLANEOUS *****							
	1-406-807-11	COIL, TUNING					
	1-452-032-00	MAGNET, DISK; 10MM Ø					
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø					
	1-453-107-11	TRANSFORMER, 250V, 100VA, 50/60Hz					
	1-504-507-11	SPEAKER (5CM)					
	1-571-734-11	SPRING, PUSH (CR)					
	1-571-730-11	COIL, POWER TUBE (CR)					
	1-571-737-11	MT, 250KΩ (CR)					
	1-571-736-11	RESISTOR, 10KΩ (CR)					
	8-598-361-00	TUNER (BTP-AC402)					
	1-733-456-01	PACK, TUBE (CR)					

ACCESSORIES AND PACKING MATERIALS *****							
	*4-042-126-01	CUSHION (UPPER) (ASSY)					
	*4-042-127-11	CUSHION (LOWER) (ASSY)					
	*4-042-128-01	INDIVIDUAL CARTON					
	4-203-406-41	MANUAL, INSTRUCTION (KV-29X2A) (ITALIAN)					
	4-203-406-51	MANUAL, INSTRUCTION (KV-29X2B) (FRENCH/GERMAN/ITALIAN)					
	4-203-406-11	MANUAL, INSTRUCTION (KV-29X2D) (GERMAN/ENGLISH/DUTCH/GREEK)					
	4-203-406-71	MANUAL, INSTRUCTION (KV-29X2E) (SPANISH)					
	4-203-406-81	MANUAL, INSTRUCTION (KV-29X2E) (PORTUGUESE/DANISH/FINNISH/NORWEGIAN/ SWEDISH)					
	*4-395-957-01	BAG, PROTECTION					
REMOTE COMMANDER *****							
	1-467-272-11	COMMANDER, STANDARD TYPE (RM-831)					
	9-903-466-01	POCKET, COVER (FOR RM-831)					
